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# Petroleum Supply Monthly



June 1984

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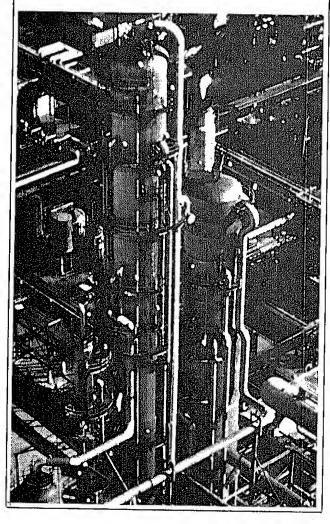
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This issue of the Petroleum Supply Monthly features a "Mid-Year Petroleum Review," beginning on page xi and focusing on major petroleum supply developments in the first half of 1984 and the outlook for the remainder of the year. The article discusses changes in consumption, domestic crude oil production, expioration and development activity, refinery operations, foreign trade, stocks (including the Strategic Petroleum Reserve), and prices. A special summary of changes in petroleum imports appears on page xv. Also in this issue is an article focusing on "Timeliness and Ac-curacy of Selected Petroleum Supply Data Series" for statistics published in 1983. This article begins on page xviil, and is accompanied by a box describing the Petroleum Supply Reporting System.



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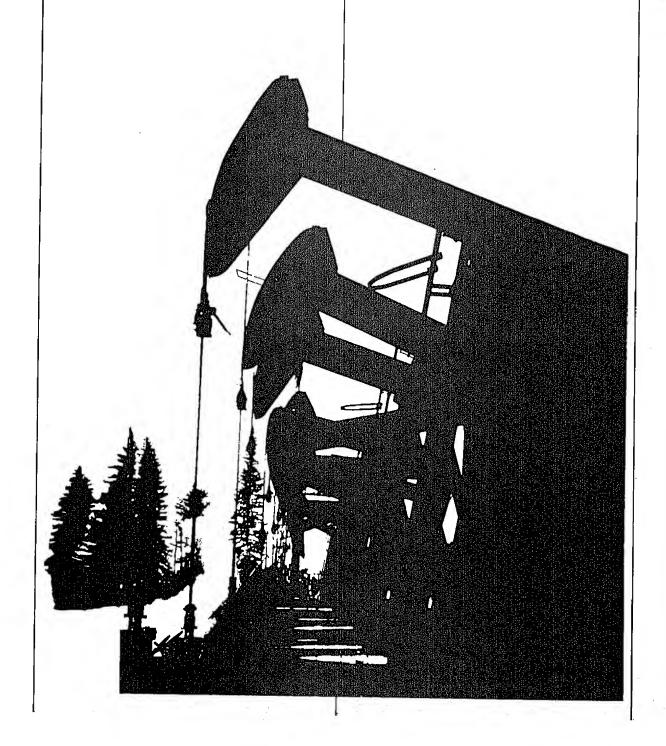
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# **Articles**

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# **Petroleum Supply Summary**

		Ju	ily	C	umulative Jan Through Jul	
age Volume for Period ion Barrels Per Day)	1984	1983	% Change	1984	1983	% Change
lucts Supplied						
Notor Gasoline	7.1	6.8	4.8	6.7	<b>6</b> .5	2.2
Distillate Fuel Oil	2.6	2.3	13.5	2.9	2.6	11.9
Residual Fuel Oll	1.0	1.3	- 19.7	1.5	1.4	0.5
Other Products	4.6	4.7	- 1.7	4.7	4.3	7.9
Total	15.3	15.0	1.9	15.7	14.9	5.4
ie Inputs to Refineries	12.2	12.4	- 1.2	12.0	11.5	4.5
luction						
rude Oll, Natural Gas						
Iquids, and Other	10.4	10.2	1.9	10.4	10.3	0.9
orts						
Frude Oll <sup>2</sup>	3.3	3.6	- 8.0	3.2	2.8	12.2
<b>PR</b>	0.3	0.3	12.4	0.2	0.2	- 7.1
roducts	1.4	1.9	- 23.9	2.0	1.6	23.7
Total	5,0	5.7	- 12.2	5.4	4.7	15.2
orts						
rude Oil	0.2	0.1	53.1	0.2	0.2	16.9
'roducts	0.6	0.4	50.7	0.5	0.6	- 15.5
Total	0,9	0.6	51.3	0.7	0.8	- 8.6
k Withdrawai						
rude Oll <sup>2</sup>	0.1	0.5	_	(0)	0.1	
roducts	- 0.1	- 0.9	_	(s) (s)	0.1	= _
ks at End of Period						
on Barrels)						
e OII						
PR	423	341	24.1			
ther	353	335	5.5			
Total	776	676	14.9			
ucts						
iotor Gasoline <sup>3</sup>	236	231	2.2			
Istiliate Fuel Oil	125	131	- 4.1			
esidual Fuel Oil	47	52	- 9.4			
ther	328	338	- 2.7			
Total	736	751	- 1.9			
Crude Oli and Products	1,512	1,426	6.0			

sludes alcohol and other hydrocarbon liquids. cludes Strategic Petroleum Reserve (SPR).

sluding blending components. Less than 0.05 million barrels per day.

E: Percent changes are based on unrounded values. July 1984 data are estimates based on weekly data, except kports, NGL production, other hydrocarbons, and alcohol which are June 1984 monthly values. Totals may not just to sum of components due to independent rounding.

be: Energy Information Administration, Petroleum Supply Monthly, June 1984.

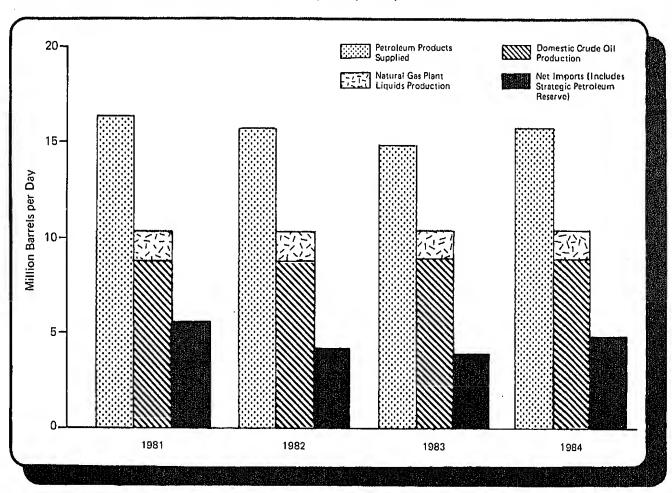
## Mid-Year Petroleum Review

Petroleum consumption in the United States during the first haif of 1984 continued the upward trend which began during the last half of 1983. At that time, a turnaround in economic conditions in the United States contributed to the reversal in the 5-year downward

NOTE: Unless otherwise referenced, data in this article were taken from the Summary Statistics section of this report, Petroleum Supply Monthly, DOE/EIA-0109(84/06); Petroleum Supply Annual 1983, DOE/EIA-0340(83) Volumes 1 and 2; Weekly Petroleum Status Report, August 16, 1984, DOE/EIA-0208(84/33) and previous Issues; Petroleum Marketing Monthly, DOE/EIA-0380(84/06); and Short-Term Energy Outlook, May 1984, DOE/EIA-0202(84/2Q). Where final data were not available, estimates were based on preliminary data.

trend in consumption. During the first 6 months of 1984, continued improvement in the economy, comblned with a much colder first quarter than in 1983, spurred the increase In consumption. To supplement stable crude oil production in meeting the higher demand for petroleum products, net imports of crude oil and products increased. Motor gasoline stocks increased through May, against the usual seasonal trend, while distillate fuel oll stocks declined dramatically before replenishment began in June. Fewer refineries were operating during the first half of 1984 than during the first half of last year. This decrease in capacity, combined with higher gross crude oil inputs, resulted in improved refinery utilization. Crude oil prices remained stable, while motor gasoline prices declined from the comparable 1983 period, and heating oil prices increased. Rotary rig activity, well completions, and seismic geophysical activity showed moderate increases over the corresponding 1983 levels.

Figure 1. Petroleum Supply, January - June 1981, 1982, 1983, and 1984



Source: Energy Information Administration, "Petroleum Supply Annual," 1981, 1982, 1983; and "Petroleum Supply Monthly," 1984, Note: 1984 data are preliminary.

### Consumption

During the first half of 1984, U.S. petroleum consumption (measured as "petroleum products supplied") continued the upward trend which began during the last half of 1983, when consumption increased 4 percent over the first half of last year. Thus far in 1984, consumption of 15.8 million barrels per day was about 6 percent higher than for the comparable months in 1983 (see Figure 1). The continued economic improvement and a winter that was 12 percent colder than the previous one were the primary reasons for increased consumption this year. Consumption of all major products was higher this year than for the comparable 1983 period.

Motor gasoline consumption of 6.6 million barrels per day during the first half of 1984 was about 2 percent higher than for the same period in 1983 (see Table 1). The relatively high primary stock levels helped to hold motor gasoline prices close to or below the 1983 averages. Increased travel this year, combined with stable prices, contributed to the higher consumption, despite continued vehicle efficiency improvements. Record imports of motor gasoline supplemented the slightly higher refinery production to satisfy the higher motor gasoline demand during the first half of 1984.

Distiliate fuel oil consumption jumped to 3.0 million barrels per day during the first half of 1984. This was the highest consumption level since the same period in 1979, and was 12 percent above the comparable 1983 level. Despite increased refinery production and higher imports, large withdrawais were needed from already low inventory levels during several months this year. The large withdrawais were necessary: first, to satisfy the surge in heating oil demand during the unusually cold winter; and second, to accommodate the increased demand for diesel fuel for transportation, construction, and farming. The high rate of consumption combined with low primary inventories, resulted in shortages in some areas, and kept distiliate fuel oil prices higher than during most of 1983.

Residual fuel oil consumption during the first half of 1984 was 1.5 million barrels per day, about 4 percent higher than the comparable 1983 level. This was also the first increase since 1979. Much of this increase was satisfied by higher imports of residual fuel oil, primarily

from the Virgin Islands (see box on page xv). Consumption during the first quarter was much higher than during the second quarter, as unusually cold weather brought a sharp increase in heating and electric utility needs.<sup>2</sup> As temperatures moderated in the second quarter, consumption dropped 25 percent from the preceding quarter. Second quarter consumption was more in keeping with the downward trend of recent years, at 3 percent below the level during the second quarter of 1983. The high price of residual fuel oil relative to prices of competing fuels has somewhat limited the effects of economic recovery on residual fuel oil consumption.

Consumption of liquefled petroleum gases (LPG's) during the first half of 1984 averaged 1.6 million barrels per day, about 8 percent higher than during the first half of 1983. As with heating oils, the unusually cold winter this year contributed to the higher demand. In addition, recovery in the petrochemical industry accounted for much of the increased demand for LPG's this year. Both imports and stock withdrawals were higher than for the comparable 1983 period, to accommodate increased consumption.

### Supply

### **Domestic Production**

Domestic crude oil production during the first half of 1984 was 8.7 million barrels per day, unchanged from the comparable 1983 level, but slightly higher than in 1981 and 1982.

### **Refinery Operations**

### Inputs to Refineries

The higher demand for petroleum products during the first half of 1984 required an increase in refinery production, which was about 7 percent higher than for the same period last year. To accommodate this increase,

Table 1. Products Supplied Summary (Million Barrels per Day)

	First 6	months	Percent	Projected	Actual	Projected Percent
Products Supplied	1984	1983	Change	1984	1983	Change
Motor Gasoline	6,6	6.5	1.8	6.6	6,6	0.3
Distillate Fuel Oil	3.0	2.7	11,5	2.9	2.7	6.3
Residual Fuel Oll	1.5	1.5	3.5	1,4	1.4	0.0
LPG's	1.6	1.5	7,8	} 4.7	1.5	} 6.3
Other Products	3.0	2.7	11.0	<i>§ 4.7</i>	3.0	∫ 0.3
Total	15.8	14.9	6.0	15.6	15.2	3.1

Totals may not equal sum of components due to Independent rounding.
Sources: Energy Information Administration, Petroleum Supply Annual, 1983; Petroleum Supply Monthly, 1984; Short-Term Energy Outlook, May 1984.

<sup>&#</sup>x27;The Oil Dally, May 25, 1984, p. 8.

<sup>&</sup>lt;sup>2</sup>Energy Information Administration, Electric Power Monthly, DOE/EIA-0226 (84/05) (Washington, D.C., July 1984), Tables 12 and 16

<sup>&</sup>lt;sup>3</sup>The Oil Dally, May 21, 1984, p. C3.

Table 2. Refinery Operations
(Million Barrels per Day)

Operations	Jan.	Jan.	Jan
	June	June	June
	1982	1983	1984
Operations	1002	1000	1004
Refinery Input Crude Oll Natural Gas Liquids Other Liquids Total Input	11.6	11.4	12.0
	0.5	0.4	0.5
	0.5	0.4	0.5
	12.7	12.2	12.9
Refinery Output Finished Motor Gasoline Distillate Fuel Oli Residual Fuel Oll Other Products Total Output	6.2	6.2	6.4
	2.5	2.3	2.6
	1.2	0.9	0.9
	3.3	3.3	3.6
	13.2	12.6	13.6

Totals may not equal sum of components due to Independent rounding.

Sources: Energy Information Administration, Petroleum Supply Annual, 1982, 1983; Petroleum Supply Monthly, 1984.

crude oil inputs to refineries rose about 6 percent from comparable 1983 levels, while inputs of other liquids remained close to the levels of recent years (see Table 2).

The average sulfur level of crude oil inputs to refineries has been increasing. This increase is related to a change in the quality of crude oils imported in recent years. Before 1982, between 30 and 40 percent of U.S. imports were lighter, low-sulfur crude oils from Saudia Arabia and Nigeria. These countries now provide about 20 percent of U.S. imports, while the portion imported from Mexico, a producer of heavier crude oils with higher sulfur content, has doubled to about 20 percent. In 1981 the average sulfur level of crude oil inputs was 0.87 percent. During the first half of 1983, the average was 0.89 percent, and this year it increased to an average of 0.94 percent.

### **Refinery Capacity Utilization**

During the first half of 1984, the refinery utilization rate averaged 76 percent, compared with 69 percent for the first half of 1983. The higher rate this year was due to higher gross inputs and lower capacity, as there were fewer active refineries than during the first half of 1983. Although no refinerles were shut down during the first half of 1983, 18 refineries closed during the second half of last year. The effects of these closings were only slightly offset by the reactivation of seven others during the same period. The net closings resulted in a loss of crude oil distillation capacity of 0.7 million barrels per day between the middle of 1983 and the end of the year. Despite the closing of three refineries during the first half of 1984, crude oil distillation capacity was 16.1 million barrels per day, unchanged from the capacity at the end of last year.

### Stocks

### Crude Oli Stocks

Crude oil stocks (excluding the Strategic Petroleum Reserve) stood at 353 million barrels on June 30, 1984,

slightly above the June 1983 level (see Table 3). During February and March, stocks were drawn down slightly, as Increased refinery inputs were needed to satisfy the surge in demand for heating olls. Crude oll stocks were replenished by April and continued upward through May, before decilining slightly in June. Relatively high levels of crude oil stocks (now about 30 days' supply, compared with 21 days' supply in 1978) are being maintained in order to meet demand through the use of spare refining capacity. This enables refiners to maintain low products stocks, yet still have the flexibility to meet unexpected demand.

### **Petroleum Product Stocks**

Petroleum product stocks on June 30, 1984, totaled 735 million barrels, 2 percent above the June 1983 level (see Table 3). Continued stock drawdowns of fuel oils were offset by additions to motor gasoline stocks. Although high inventory carrying costs are still a contributing factor to the low total product stocks, the unusually cold weather during the first quarter and increased consumption this year by the industrial and transportation sectors were the primary reasons for the continued stock withdrawais of several major products. Despite higher refinery production and higher imports for these products, stock withdrawals from aiready-low levels were required to satisfy significantly higher demand than in 1983. In fact, such large drawdowns of distillate fuel oil stocks were required, that stocks fell below the minimum operating inventory level<sup>4</sup> in April and May. As a result, spot shortages occurred, notably in the Midwestern States. Motor gasoline stocks at the end of 1983 were at the lowest year-end level since 1974. During the first half of 1984, motor gasoline stocks in-

Table 3. Ending Stocks of Petroleum (Million Barrels)

Commodity	June 1984	June 1983	Percent Change
Crude Oli			
SPR	414	332	24.7
Other	353	351	0.6
Total	766	683	12.2
Products			
Motor Gasoline	245	223	9.9
Distillate Fuel Oll	113	114	- 0.9
Residual Fuel Oil	47	50	6.1
LPG's	106	104	1.9
Other	224	232	- 3.4
Total	735	723	1.7
Total Crude Oil and Products .	1,502	1,405	6.9

Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration, Petroleum Supply Annual, 1983; Petroleum Supply Monthly, 1984.

The National Petroleum Council (NPC) defines the minimum operating inventory as the inventory level below which operating problems and shortages would begin to appear in a defined distribution system. In its 1983 study, the NPC estimated this inventory level for distillate fuel oil to be 105 million barrels.

creased substantially through May, against the usual trend of spring drawdowns. Much of the stock bulldup resulted from excess production of motor gasoline, which was a coproduct in the production of distillate fuel oil. During the same period, favorable foreign motor gasoline prices resulted in higher imports, which satisfied the slight increase in motor gasoline demand.

### Strategic Petroleum Reserve

The Strategic Petroleum Reserve (SPR), authorized under the Energy Policy and Conservation Act of 1975, is intended to reduce the impact of a severe disruption of foreign crude oil supplies to the United States. It is operational with stocks of 414 million barrels at midyear (see Table 3). The current plan approved by Congress is to have 750 million barrels in the SPR (about 90 days total oil import equivalent at 1978 rates) by 1991. At the present import rate, stocks in the SPR at the end of June 1984 represented about 85 days' supply.

if U.S. imports of crude oil alone were cut off, SPR stocks could flil the gap between domestic production and refinery inputs for about 125 days. Currently, Imports from the Persian Guif represent about 10 percent of all U.S. oil imports. The current SPR inventory can be drawn down at varying rates over the duration of a drawdown within the constraints of the current maximum sustained drawdown rate. The SPR can currently drawdown and distribute oil from the sites at either an initial average sustained rate of 2.1 million barrels per day for 3 months, or at an initial average sustained rate of 1.7 million barrels per day for a period in excess of 5 months, each alternative being followed by lower rates in subsequent months.

Over the past 5 years, shifts in the demand for oil from Petroleum Administration for Defense (PAD) District II to PAD District III have caused the distribution plan for the SPR oil to require change. Because of the shift in demand, two of the three major pipelines intended to move SPR oil to PAD District ii refineries are no longer available. An expanded distribution system capability along the Gulf Coast is in the planning stages.<sup>6</sup>

For budgetary reasons, the fill rate for SPR stocks during the first half of 1984 dropped 11 percent from the comparable 1983 rate to 190 thousand barrels per day. Of the total stocks in the SPR at mid-year, about 8 percent Is from domestic sources, primarily Alaska. Approximately 35 percent of the stocks in the SPR Is from Mexico, 25 percent from the United Kingdom, and about 25 percent Is from OPEC countries.

### **Imports**

### **Total Net Imports**

U.S. net Imports of crude oil and petroleum products (gross imports, Including Imports for the SPR, minus exports) averaged 4.8 million barrels per day, 30 percent higher than during the comparable period last year (see Table 4). Because domestic production of crude oil and natural gas liquids remained about the same, virtually all of the increase in consumption was accommodated by higher imports.

Table 4. Net Imports of Petroleum (Million Barrels per Day)

Commodity	Jan June 1984	Jan June 1983	Percent Change
Crude Oil SPR Other Total	0.2 3.0 3.2	0.2 2.5 2.8	- 11.1 17.4 15.1
Products Residual Fuel Oil Motor Gasoline. Distillate Fuel Oil LPG's. Other. Total	0.6 0.3 0.2 0.2 0.3 1.6	0.5 0.2 0.0 0.1 0.1 0.9	31.9 40.2 1,346.7 65.0 166.7 75.5
Total Crude Oil and Products .	4.8	3.7	30,0

Totals may not equal sum of components due to Independent rounding.

Sources: Energy Information Administration, Petroleum Supply Annual, 1983; Petroleum Supply Monthly, 1984.

### **Crude Oll Imports**

Net imports of crude oil, excluding the SPR, during the first half of 1984 averaged 3.0 million barreis per day, 17 percent above the comparable 1983 level, when high foreign crude oil prices and low domestic demand brought crude oil imports to their lowest level since 1972. The higher imports this year are associated with a 15 percent lower price than in early 1983, with the need to supplement crude oil production to meet higher product demand, and with the need to rebuild crude oil stocks so that refiners can maintain flexibility in meeting unexpected demand. During the first 6 months of 1984, imports accounted for about 25 percent of the refinery inputs, compared with 22 percent during the first 6 months of 1983.

Gross Imports of crude oil, Including Imports for the SPR, this year averaged 3.4 million barrels per day, compared with 2.9 million barrels per day during the first half of 1983 (see box on page xv). Crude oil Imports for the SPR averaged 0.2 million barrels per day, approximately 6 percent of all U.S. crude oil Imports, compared with 7 percent during the first half of 1983.

### **Product Imports**

During the first half of 1984, net imports of petroleum products averaged 1.6 million barrels per day, higher than at any time since 1979. This average was about 76 percent higher than the comparable 1983 average and about 14 percent higher than during the last half of 1983.

<sup>&</sup>lt;sup>8</sup>U.S. Department of Energy, Office of the Deputy Assistant Secretary for the Strategic Petroleum Reserve. <sup>8</sup>The Wall Street Journal, May 24, 1984, Section 2.

# **Changing Patterns of Petroleum Imports**

Crude Oil

Crude oil imports increased moderately during the first half of 1984 from the comparable 1983 period, as improved economic conditions contributed to higher demand for petroleum. The entire increase was due to higher crude oil imports from the Organization of Petroleum Exporting Countries (OPEC). Imports declined dramatically between early 1980 and early 1983, in association with the drop in petroleum demand during that time. Imports from OPEC countries plummeted during that period, while supplies from non-OPEC countries grew.

The doubling of foreign crude oil prices between early 1979 and early 1980 contributed to the dramatic downward trend in imports, which ended during the first half of 1983. In early 1983, foreign crude oil prices decreased moderately and U.S. petroleum demand began to rise in association with the economic turnaround. Crude oil imports then began to increase, and remained higher during the first half of 1984 than for the same period in 1983.

U.S. reliance on OPEC countries for crude oil was drastically reduced between early 1980 and early 1984. In early 1980, OPEC countries provided three-quarters of all crude oil imports; so far this year, they accounted for about 45 percent. While the share of total crude oil imports from non-Arab OPEC countries was about 25 percent throughout this period, the share from Arab OPEC countries fell from 48 percent in early 1980 to 11 percent in early 1983, before increasing to about 19 percent this year.

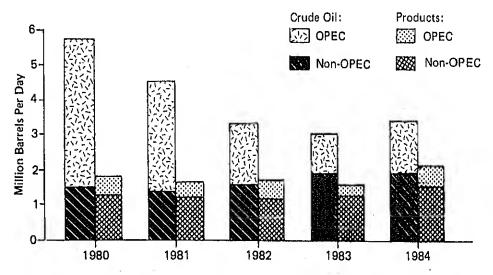
Crude oil imports from non-OPEC countries grew 25 percent between 1980 and 1983, and have been stable in the first half of 1984. Imports from Mexico increased 28 percent between early 1980 and this year. Mexico now represents about 20 percent of all crude oil imports; Canada and the United Kingdom together account for about 20 percent. In 1980, the combined share from these three countries was only 17 percent.

### **Petroleum Products**

Gross imports of petroleum products averaged about 1.6 million barrels per day from early 1980 to early 1983, before increasing substantially this year. Product imports in early 1980 represented 23 percent of all imports; by early 1983 they accounted for 35 percent. During the first half of 1984, product imports grew more than crude oil imports, constituting about 38 percent of the total. Residual fuel oil and LPG's together accounted for 75 percent of all products imported in 1980; now residual fuel oil and motor gasoline together account for about 51 percent of product imports.

Throughout this 5-year period, Canada and the Virgin Islands have been the major suppliers of foreign products. In 1980 they accounted for about 40 percent of the product imports, compared with about 30 percent this year. OPEC countries accounted for about one-fourth of the product imports throughout this period. Imports from Arab OPEC countries, however, have grown from 2 percent in early 1980 to about 9 percent during the first half of 1984. Product imports from Arab OPEC countries are expected to grow even more, as refinery production in these countries increases.

### Gross Imports of Crude Oil and Petroleum Products, by Source, January-June 1980-1984



Source: Energy Information Administration, "Petroleum Supply Annual" and predecessor reports, 1980, 1981, 1982, 1983; and

"Petroleum Supply Monthly",1984,

1984 data are preliminary.

As demand for major products increased during the last half of 1983, increased imports replaced large stock withdrawals as the primary means of supplementing domestic production to meet higher product demand. This year, even though product imports increased significantly, the surge in demand for some products required further drawdowns from low stock levels to supplement production and net imports.

All major products showed substantial increases in net imports over 1983 levels. Imports of residual fuel oil, the principal product imported, increased during the first half of 1984; they had been declining for the previous 7 years. Its share of total net imports dropped to about 39 percent this year from 52 percent in the comparable 1983 period, as net imports for all other products increased solidly. Imports this year were highest in January and February to accommodate higher demand for winter heating fuels.

Net Imports of motor gasoline, distillate fuel oil, and LPG's are small by comparison to residual fuel oil Imports, but notable changes have occurred in recent years.

Motor gasoline imports have been rising since early 1982 and have been at record levels since the middle of 1983. This year motor gasoline imports represented over 4 percent of product supplied; historically they have accounted for only 2 or 3 percent.

Net imports of distillate fuel oil have averaged about 7 percent of product supplied since the middle of 1983, but accounted for practically none during 1982 or the first half of 1983. During that period, refiners drew down distillate fuel oil stocks to satisfy declining demand as a means of reducing high carrying costs. They also cut back refinery production and kept imports near minimum levels. Unusually cold weather at the beginning of 1984 and increased transportation use of diesel fuel contributed to an 11-percent rise in distillate fuel oil demand over comparable 1983 levels. With little cushion in distillate fuel oil stock levels, higher imports were needed to supplement refinery production.

Net Imports of LPG's also grew substantially during the first half of 1984, primarily as a result of much lower exports than a year earlier. In early 1983, U.S. exports of LPG's had helped to fill the demand created when Saudi Arabla reduced its crude oil production (directly related to LPG production). Demand for LPG's also shot upward during the first half of 1984 due to a combination of colder weather and increased petrochemical industry activity. Stock drawdowns and imports both increased in order to meet the higher demand.

Gross Imports of petroleum products of 2.1 million barrels per day were 34 percent higher during the first 6 months of 1984 than in the comparable 1983 period (see box on page xv), and 12 percent higher than during the second half of last year. Although gross product imports increased substantially this year, net imports increased even more because of lower exports. A 28-percent drop in product exports (primarily residual fuel oil and petroleum coke) during the last half of 1983, to 0.5 million barrels per day, was associated with the strengthened position of the U.S. dollar against foreign

currencies. Exports remained at the same level during the first half of 1984 and were the principal factor in the 76-percent increase in net imports.

### **Exploration and Development**

U.S. drilling activity, which showed gradual recovery during the last haif of 1983, has been running higher each month during the first half of 1984 than for the comparable 1983 months. in April, normally the low point for drilling activity, 15 percent more rotary rigs were operating than in April 1983. The average number of rigs operating so far this year was 12 percent higher than for the same period in 1983. Drilling activity is expected to increase during the remainder of 1984.

Geophysical activity, a leading indicator of future oil and gas exploration activity, was also higher during the first half of 1984 than for the corresponding 1983 period. Even though bad weather contributed to a moderate decline in the number of seismic crews searching for oil and gas in March, the seismic crew count of 471 was 5 percent higher than the March 1983 level, which was the low point last year. Seismic crew activity in the United States and on its Outer Continental Shelf rose slightly in April 1984, and increased sharply in May and June. Of the 500 active crews in June, 455 were land crews and 45 were on marine vessels.

Weil completions during the first 6 months of 1984 were about 4 percent higher than during the comparable 1983 period. This was about 7 percent lower than the record number drilled during the first half of 1982 (see Table 5). The total footage of completed wells also increased. The average depth per well completed so far this year was 4,313 feet, slightly deeper than the average depth during the same period in 1983. Oil wells ac-

Table 5. Drilling Activity

Item	Jan	Jan	Jan.
	June	June	June
	1982	1983	1984
Average Number of Rigs Operating1	3,660	2,095	2,349
Total Wells Drilled <sup>2</sup> Exploratory Development	43,666	38,907	40,466
	8,791	7,544	7,347
	34,875	31,363	33,119
Oil	20,583	18,431	20,238
Gas	9,225	8,070	7,535
Dry Holes	13,858	12,406	12,693
Average Depth per Well (feet) .	4,819	4,291	4,313

'Hughes Tool Company, Rotary Rigs Running—By State, (Houston, Texas: 1982-1984).

<sup>&</sup>lt;sup>2</sup>American Petroleum Institute, Report on Drilling Activity in the United States, (Washington, D.C.: January 1982-June 1984).

<sup>&</sup>lt;sup>7</sup>Austin, Thomas S., Jr., Hughes Tool Company, Houston, Texas, presentation before the Independent Petroleum Association of America Supply and Demand Committee, May 1984.

Society of Exploration Geophysicists, News Release, (Tulsa, Oklahoma: July 5, 1984).

counted for haif of the well completions, dry holes for about one-third, and gas wells for about one-fifth.

#### **Price Trends**

### **Crude Oil Prices**

Crude oil prices at the end of June 1984 remained close to \$29 per barrel. Prices dropped from \$34 per barrel to this level in March 1983, in reaction to pressures caused by weak world petroleum demand, rellance on stock withdrawais rather than imports to meet demand, and excess world crude oil production capacity. During the first half of 1984, conflicting factors held crude oil prices near the \$29 level. Downward pressure related to the excess world crude oil production capacity was offset by increasing world demand for petroleum, and stock drawdowns as a means of meeting demand were not as prevalent. Uncertainty caused by the recent threat of a supply cutoff from the Persian Gulf, which provides about 20 percent of the free world's supply of oll, has not caused a rise in crude oil prices, primarily because the accumulated strategic crude oil stocks outside the Persian Gulf are perceived to be adequate to counter such a disruption.16

The refiner acquisition cost of crude oil, which was \$35.03 In June of 1981 (see Table 6), averaged \$28.77 in June 1984. This was very close to the average price that held throughout most of 1983.

Table 6. U.S. Average Petroleum Prices

Petroleum	June	June	June	June
Prices	1981	1982	1983	1984
(Dollars p	er Barre	1)		
Refiner Acquisition Cost of Crude Oil				
Domestic	34.20	30,79	28.67	28.58
Imported	37.03 35.03	33.79 31.74	29.23 28,85	29.19 28.77
(Cents pe	r Gallor	۱)	•	•
Motor Gasoline, All Types,				
Retall	136.2 120.9	129,6 116.2	126.1 106.0	121.4 p107.0

<sup>11983</sup> and 1984 prices exclude taxes. p = preliminary.

### **Petroleum Product Prices**

in a counterseasonal move, average motor gasoline retail prices fell to 121.4 cents per gallon in June, 4 percent lower than for the same period of 1983, and 11 percent below the June 1981 prices. Steady increases in motor gasoline primary stocks during the first half of 1984 contributed to lower prices, assuring abundant supplies to meet the expected higher demand during the summer driving season.

The surge in heating oil demand during the unusually cold winter of 1984 prompted sharp rises in the retail price of residential heating oil during January and February. By February, the price was 10 percent higher than at the end of last year, and 5 percent higher than in February 1983. After peaking in February this year, prices declined each month through June, but remained higher than during the corresponding months of 1983. The residual effects of the winter price rise, along with continued tight supplies of distillate fuel oil, contributed to the higher prices this spring.

The residual fuel oil price is related to the International market price, because almost half of the residual fuel oil supplied is from foreign sources. Associated with increased demand for residual fuel oil at foreign utilities at times during the past year, residual fuel oil prices on the spot market have been close to, or higher than, the price of crude oil. Increased international demand, combined with the higher U.S. demand during the first quarter of 1984 to accommodate increased heating needs, has kept the residual fuel oil price close to \$29 per barrel. During the first half of 1983, residual fuel oil prices on the spot market were substantially below crude oil prices.

### Outlook

A return to normal weather and a slower rate of economic improvement are expected during the last half of 1984. These two factors should change the trends that developed during the first half of the year to some degree. The outlook for the remainder of 1984 follows:

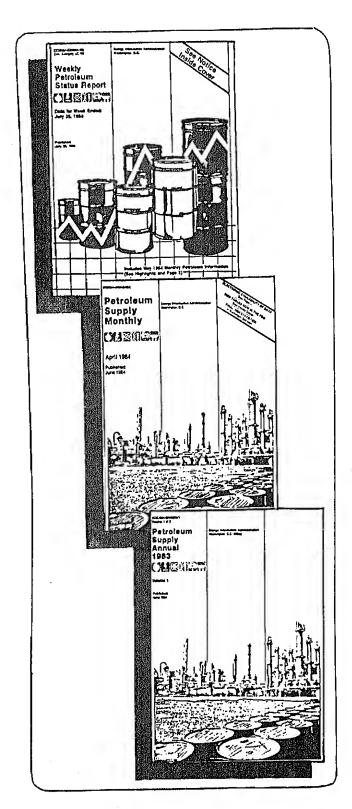
- Consumption of petroleum products will be a little higher than for the comparable 1983 period.
  - Domestic crude oil production will remain close to 8.7 million barrels per day for the remainder of the year.
  - Crude oll and product prices are expected to remain relatively stable, with some seasonal variations.

Sources: Energy Information Administration, Form 14, "Refiners' Monthly Cost Report;" Form ElA-9A, "No. 2 Heating Oil Supply/Price Monitoring Report;" Form ElA-782A, "Monthly Petroleum Product Sales Report;" and Form ElA-782B, "Monthly No. 2 Distillate Sales Report." Motor gasoline prices: Bureau of Labor Statistics.

<sup>\*</sup>American Petroleum Institute, Report on Drilling Activity In the United States, (Washington, D.C.: January 1982-June 1984).

<sup>10</sup> The Oil Daily, April 27, 1984, p. A3.

# Timeliness and Accuracy of Selected Petroleum Supply Data Series



The Petroleum Supply Division (PSD) of the Energy Information Administration (EIA) operates an Information collection and dissemination system that Includes weekly, monthly, and annual surveys. The monthly surveys are complete censuses of the operators of facilities that provide the primary supply of petroleum products in the United States (refineries, bulk terminals, pipelines, importers, etc.). These monthly surveys gather detailed information on production, stocks, imports, and flows of crude oil and a wide range of petroleum products. The weekly surveys collect data on the most important petroleum variables from selected samples of petroleum industry members. Weekly data are intended to serve primarily as leading indicators of the monthly statistics.

From 1981 through 1983, several significant changes were made to enhance petroleum data collection, processing systems, and publications. The effects of these changes on the quality of preliminary statistics can be assessed now that final statistics have been compiled and published in the 1983 Petroleum Supply Annual (PSA).

This article describes the enhancements which were implemented in the past 3 years. Also, it looks at the types of errors the petroleum data are subject to. Finally, it presents an assessment of the accuracy of weekly and monthly published statistics in 1983, compared with their accuracy in prior years. The article concludes that the quality of most data series has been maintained or improved, even as processing time schedules have been compressed.

### **Enhancements to PSD Data**

On October 1, 1977, with the formation of the EIA, units from the Bureau of Mines (BOM), the Federal Energy Administration (FEA), and the Federal Power Commission (FPC) were merged together. The data systems dealing with petroleum supply data were developed independently by each of these agencies. During the first several years of EIA's existence, improvements were made in these systems, but it was not until the formation of the Petroleum Supply Division (July 1981) that a comprehensive approach to the integration of these diverse systems was undertaken.

Within the first year, the entire processing system was redesigned and the Petroleum Supply Reporting System (PSRS) was created (see box). Eleven publications were consolidated into three: Weekly Petroleum Status Report (WPSR), Petroleum Supply Monthly (PSM), and Petroleum Supply Annual (PSA). Surveys and processing procedures were scheduled so they would fit together to produce these three reports smoothly. In doing so, duplication was eliminated, the

# Petroleum Supply Reporting System

The information gathered by the Petroleum Supply Reporting System (PSRS) is used to determine the supply and disposition of crude oil, petroleum products and natural gas liquids. These statistics are published in the "Weekly Petroleum Status Report" (WPSR), the "Petroleum Supply Monthly" (PSM), the "Petroleum Supply Monthly" (PSM), the "Petroleum Supply Annual" (PSA), the "Monthly Energy Review" (MER), and the "Annual Energy Review" (AER). In addition, selected statistics from the PSRS are available free to the public through EIA's Electronic Publication System (EPUB). The PSRS is the most comprehensive source of petroleum supply statistics currently available.

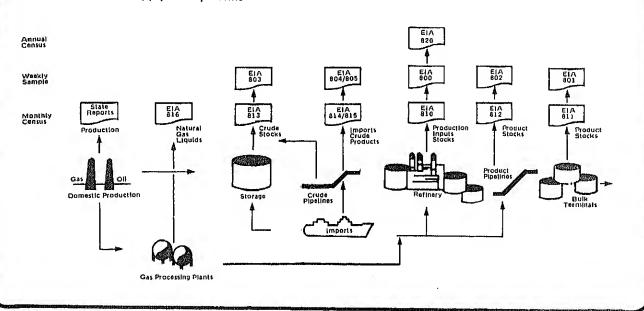
The PSRS consists of one annual, eight monthly, and six weekly surveys which collect information on domestic production, inventories, imports, and movements of petroleum (see figure below). Data from these surveys are supplemented by the Census Bureau's IM-145 tabulation which provides information on imports of liquefied petroleum gases and the Census Bureau's EM-522 tabulation which provides information on petroleum exports. EIA's crude oil production data are based on information collected by State agencies and the U.S. Geological Survey.

The PSRS has seven sampling frames for different sectors of the petroleum industry: refineries and mechanical blenders, bulk terminals with a capacity of 50,000 barrels or more, product pipelines, holders of crude oil stocks having possession of 1,000 barrels or more, petroleum importers, gas processing plants, and tanker and barge companies. The petroleum universes are relatively small and everchanging due to company births, deaths, mergers, and splits. All frames are updated continuously. Investigations of the adequacy of the frames are conducted periodically.

The annual and monthly surveys are complete censuses. The weekly surveys are collected from 90 percent cut-off samples selected from the universes of those units that report to the monthly surveys. Unlike the monthly surveys which collect data on as many as 50 variables, the weekly surveys collect data only on crude oil, motor gasoline, jet fuel, distillate fuel oil, and residual fuel oil. Most of the data reported in the weekly surveys are estimated by the reporting companies, while data reported in the annual and monthly surveys are based on company accounting records. Inventory data are reported as of the end of the reference period. Data on imports, inputs, outputs. and movements of crude oil and petroleum products between PAD Districts show the total volume of activity for the reference period. All quantities are reported in thousand barrels (42 U.S. gallons). Zeros often dominate the responses; i.e., not all of the units produce and/or store all products. The distributions of the petroleum supply variables are highly skewed; i.e., there are many small units and few large ones.

The reference period for the weekly surveys extends from 7 a.m. Friday to 7 a.m. the following Friday. These data are published in the "WPSR" on Thursday following the close of the reference week. The reference period for the monthly surveys begins 12 a.m. of the first day of the month and ends midnight of the last day of the month. These data are published in preliminary form in the "PSM," 60 days after the close of the reference month. Data resubmissions are required whenever an error greater than 5 percent of the true value is discovered by a respondent, or if requested by the EIA to correct internal inconsistencies. Final data, reflecting any necessary corrections, and the results of the annual survey (Form EIA-820, "Annual Refinery Report") are published in the PSA, 6 months after the close of the calendar year.

### **Principal Petroleum Supply Survey Forms**



number of revisions was substantially reduced, inconsistencies in the publications were eliminated, and it became easier for users to locate and use the data produced.

On July 14, 1983, EIA began to publish weekly data In the WPSR on the Thursday following the report week. Prior to that time, the WPSR was published on the Friday following the report week. This change requires completion of final data estimates one day earlier. Also, EIA discontinued revising the published weekly estimates.

The PSM now publishes monthly data 60 days after the end of a report month. Prior to the PSM consolidation, data appeared in the Monthly Petroleum Statistics Report (MPSR) 60 days after the end of a report month and In the Monthly Petroleum Statement (MPS) 90 days after the end of the report month. The MPS's time schedule allowed revisions to reflect company resubmissions and corrections, inclusion of data from companles that were nonrespondents at the last publication, and correction of data processing errors. While the time lag for publication of monthly data in the PSM is virtually the same as In the MPSR, the PSM presents more comprehensive statistics than previously provided in the MPS. Monthly estimates derived from weekly data are also published in the PSM 30 days after the end of a report month.

Final monthly data are now published in the PSA 6 months after the close of the calendar year. Prior to the March 1982 consolidation, final data were published in the Annual Petroleum Statement (APS) 9 months after the close of the calendar year.

Beginning with the reporting of January 1983 data, new revised survey forms were implemented. (A detailed explanation of all the changes made to the survey forms is contained in the March 1983 *PSM*.) Consistency among weekly, monthly, and annual survey forms was enhanced by using a single set of definitions, consistent reporting instructions, identical product codes, and common company and facility identifiers.

A major update to the survey frames was Implemented in January 1983, based on results of a study begun in 1981. Operators of 160 bulk terminals, 15 pipelines, and 30 crude oil stock holders were added to the respective frames. In addition, 50 facilities that reported to the "Natural Gas Liquids Operations Report" were transferred to the bulk terminal frame. EIA's estimates of total stocks of petroleum products increased 2.2 percent as a result of this change.

In January 1983, a new processing system was implemented for all of the weekly surveys. An automated

editing procedure was implemented to validate facility-level data for each of the weekly surveys. Also, an automated procedure was Implemented to impute for missing or faulty data. Prior to this, nonrespondents were treated as nonsampled units. Major changes to the weekly imports data estimation procedures were also implemented. In March 1983, new samples were drawn for the weekly surveys to reflect the expanded frames. Along with the new samples, new sample control procedures were implemented to maintain the appropriate level of coverage and to ensure that the weekly and monthly data remain consistent.

In March 1983, a new processing system was implemented for all of the monthly surveys. Imputation procedures used for nonresponse in the monthly surveys since 1976 were revalidated and additional automated edit procedures are now being implemented.

In an effort to Improve the quality of petroleum supply data, an on-going comparison of data submitted by Individual companies on the weekly and monthly forms is routinely conducted. Historical reporting patterns for both monthly and weekly surveys are compared, and facilities that systematically report different values on the weekly and monthly surveys are identified. Letters are sent to those companies showing a large average difference in monthly and weekly reporting for three or more products over a period of 12 months and large differences (in the same direction) over the most recent 2 months. Companies with major sustained discrepancies for one or two products are contacted by phone.

To monitor values of key variables reported in the weekiy and monthly surveys, graphical comparisons are drawn between published monthly data for a particular variable and the monthly value derived from weekly data for that variable.

Last, but not least, is the implementation of a system for documenting the steps being taken to improve data quality. A "Quality Control Notebook" is prepared to summarize current activities, evaluate current data quality, and establish an agenda for future enhancements or studies.

### **Sources of Error**

in evaluating the accuracy of a survey, it is necessary to distinguish two sources of errors: sampling and nonsampling errors.

### Sampling Error

Sampling errors are unavoidable when estimates are based on a sample and not on the whole universe. Nevertheless, they can be controlled within limits fixed in advance, and they can also be estimated objectively from the sample itself. Weekly estimates, all based on samples, are subject to this type of error. This accounts for part of the difference between published weekly

estimates and final annual figures. However, the fact that the sample accounts for 90 percent or more of the aggregates being estimated assures small sampling errors.

### **Nonsampling Errors**

These errors can be classified into two groups—random types of errors whose effects nearly cancel out, and nonrandom types which tend to remain more-orless fixed and constitute a systematic error. Both weekly and monthly data are subject to nonsampling errors. Four of the main contributing causes of these errors are as follows:

- 1. Frame error: PSRS frames are continually reviewed and updated in order to reduce undercoverage. In general, faults in the frames are small compared to other errors.
- 2. Nonresponse error: PSRS surveys have very high response rates. The response rates are usually above 95 percent for the weekly surveys and are always above 98 percent for the monthly surveys. Missing or faulty weekly data are imputed using the exponentially smoothed average of respondent's past reported values. The monthly processing system uses the data reported in the previous month as the imputed value for the missing data for all surveys except the import survey. Because of the high rates of response and the use of imputation procedures, nonresponse error has a negligible impact on PSRS data accuracy.
- 3. Processing error: Data keying into computer flies presents another opportunity for error; for example, two digits may be transposed or a datum may be entered in the wrong cell. Depending on their magnitude, some of these clerical errors may be detected by automated edit procedures that check current data for consistency with past data and for internal consistency; e.g., totals equal to the sums of the parts. However, processing errors cannot always be detected, especially if they are of small magnitude.
- 4. Response error: Response or reporting error (the difference between the true value and the value reported on the survey form) is the major factor affecting the accuracy of PSRS data and, in particular, preliminary data. Most discrepancies between preliminary and final data are due to reporting errors. Reporting errors can take many forms. For example, human errors may also occur when figures are written on forms by respondents. Often these mistakes can be detected and resolved by editing procedures. Sometimes, company records are not finalized at the time monthly survey forms are due and respondents submit preliminary estimates. This error is noticeable in import data because final company import records are not available until forms have been verified by the U.S. Customs Service. These errors may cause large discrepancies between

preliminary and final data. Most companies can only report estimates for weekly data. Any error in these estimates will affect the accuracy of weekly data. Sometimes product identification changes during the period between weekly and monthly data submissions. For example, a respondent may initially report the production of oil as residual fuel oil on the weekly form and later decide to process it further. When he files his monthly form, he may record the same oil as unfinished oil, since it is no longer regarded as residual fuel oil. This change again affects the accuracy of the weekly data.

### Data Assessment

This section tracks the change in accuracy of PSRS data as the data move from preliminary publication (PSM) to final publication (PSA). In addition to preliminary monthly data, the PSM reports monthly estimates derived from the weekly data for the most recent month (see Explanatory Note 8 in this publication). Monthly-from-weekly estimates (MFW) are also compared with preliminary (PSM) and final (PSA) monthly data as part of on-going data quality activities.

Before proceeding, it is important to keep in mind three points. First, weekly data, based on estimates provided by a sample of companies, were intended to serve primarily as leading indicators of the monthly data and were never expected to have the same level of accuracy. Second, the method used to derive the monthlyfrom-weekly estimates assumes that input, production, and stock addition or withdrawal are constants across each day of the week. Accuracy of these monthly-fromweekly estimates depends on the realization of the assumption. Third, final monthly data are still subject to errors. However, these final data accommodate revisions made by respondents following thorough review and editing by government and company statisticians and are considered to be the most accurate data available.

in order to assess the accuracy of monthly estimates developed from weekly data (MFW) and preliminary monthly values (PSM), they are compared with the final monthly values (PSA). The error for a given value is the difference between interim monthly value (MFW or PSM) and the final monthly value (PSA). The percent error is the error multiplied by 100 and divided by the final monthly value. Absolute mean error is the average of the absolute values of the errors over 12 months. Absolute mean error provides a measure of the average magnitude of revision which occurred over the year for a particular data series. Absolute mean percent error is the average of the absolute values of the percent errors over 12 months. Absolute mean percent error provides a measure of the average error relative to the aggregate. being measured. Table 1 displays absolute mean errors and absolute mean percent errors of monthly-fromweekly estimates and preliminary monthly values for 30 petroleum variables for 1982 and 1983.

Table 1 shows that the majority of data series have improved in 1983. Except for refined product imports, absolute mean percent errors for all preliminary monthly data (*PSM*) are less than 2 percent. For the monthly-from-weekly estimates, absolute mean percent errors of residual fuel oil imports, production and stocks are high (4.80 to 6.59 percent). Absolute mean percent errors of refined product imports are also high; however, for most products, the volume of imports is relatively small.

Highlights of interim (MFW and PSM) and final (PSA) monthly data comparisons are presented in Figures 1 through 3 for selected petroleum data series—stocks and inputs of crude oil; production and stocks of motor gasoline, distillate fuel oil, and residual fuel oil; and imports of crude oil and petroleum products. These data series were carefully selected for analysis and target improvement in 1982, because of their relative size, and because other major variables (such as the product supplied series) are generated from them.

Table 1. Summary Statistics of Differences in Reporting Between Interim Publications and Petroleum Supply Annual in 1982 and 1983

	Mor	nthly-from-W	eekly Estin	nates	P	reliminary	Monthly Data	1	
efinery Output		olute Error*	Absolute Mean Percent Error		Abso Mean		Absolute Mear Percent Error		
Variable -	1983	1982	1983	1982	1983	1982	1983	1982	
Total Products Supplied Refinery Output Crude Input Crude Production	303 249 112 84	340 180 127 29	1.95 1.96 .97 .97	2.22 1.35 1.08 .33	74 23 12 80	50 14 10 47	.49 .17 .13 .93	.32 .10 .09 .55	
Fotal Imports  Crude Imports  Product Imports  Gasoline Imports  Distillate Imports  Residual Imports  Jet Fuel Imports Imports  Other Products Imports	171 119 173 29 22 46 10 89	406 153 272 34 27 97 10	3,84 3,85 10,27 11,02 13,18 6,59 32,83 15,00	8.18 4.50 16.64 17.38 27.90 12.68 38.25 28.90	66 35 36 10 5 10 4 21	72 29 44 11 2 19 2	1.37 1.17 2.06 4.56 3.46 1.36 12.67 3.67	1.45 .89 2.73 5.43 1.60 2.66 6.77 2.40	
Gasoline Supplied Distillate Supplied Residual Supplied Jet Fuel Supplied Other Products Supplied .	94 75 91 39 210	200 101 108 31 161	1.41 2.62 6.16 3.72 6.12	3.01 3.87 6.35 3.09 4.75	27 20 19 11 55	36 25 27 7 43	.42 .74 1.32 1.10 1.64	.56 .86 1.45 .70 1.29	
Gasoline Production Distillate Production Residual Production Jet Fuel Production Other Product Production	32 31 41 14 199	97 29 39 16 122	.49 1.27 4.80 1.39 8.53	1.54 1.11 3.68 1.61 5.04	10 3 7 3 6	11 6 13 1 5	.16 .13 .78 .27 .26	.17 .25 1.16 .14 .23	
Total Stocks	7,618 9,607 4,646 3,035 1,448 2,607 821 5,773	10,753 5,459 10,017 2,687 3,795 1,956 447 6,815	.69 1.28 1.34 1.33 1.09 5.11 1.98 2.00	.95 .70 2.82 1.16 2.60 3.24 1.11 2.25	3,543 1,231 3,205 563 476 143 422 1,099	2,560 2,489 1,219 1,100 552 172 93 1,242	.32 .16 .92 .24 .33 .28 1.03	.22 .32 .34 .46 .42 .29 .24	

<sup>\*</sup>All absolute mean errors are reported in thousand barrels per day, except stock data, which are reported in thousands of barrels. Note: Absolute mean error is the average of the absolute values of errors over 12 months; absolute mean percent error is the average of the absolute values of percent errors over 12 months.

Crude Oil Inputs to Refineries Motor Gasoline Production 1981 1982 1983 1981 1982 1983 4% 4% Percent Error 0% 0% -4% -4% Distillate Fuel Oil Production Residual Fuel Oil Production 1981 1982 1983 1981 1982 1983 8% 8% 40/ 4% Percent Error 0% 0% -4% -4% .8% -8% Monthly from Weekly vs. PSA Preliminary Monthly vs. PSA

Figure 1. Range of Percent Errors of Interim Refinery Inputs and Production Data.

Note: Diamond = Median of percent errors; i.e., the average of the two middle values are arranged in order of magnitude.

Bar = Range of percent errors occurring during the year; i.e., the upper end point of the bar is the maximum percent error and its lower end point is the minimum percent error.

Source: Energy Information Administration.

### **Refinery Inputs and Production**

Except for residual fuel oil, there was some improvement in weekly inputs and production data during 1983 (see Figure 1). Weekly residual fuel oil production shows positive bias, due to problems in product classification. Residual fuel oil might be classified an unfin-

ished oil or as residual fuel oil depending on whether it is to be further processed or sold.

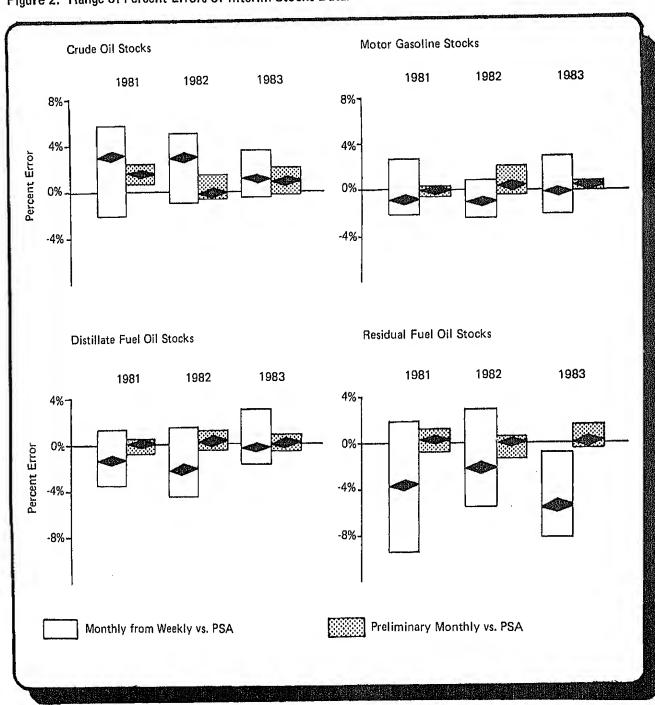
The accuracy of monthly refinery inputs and production data remained about the same in 1981, 1982, and 1983 except for residual fuel oil, which improved in 1983. Revisions were less than 1 percent except for one month (3.8 percent).

### Stocks

Accuracy of the weekly stocks data improved slightly in 1983 except for residual fuel oil (see Figure 2). Weekly residual fuel oil stocks data are still systematically low because of reporting errors of a few bulk terminals. Weekly crude oil stocks showed a slight positive bias.

While motor gasoline stocks data showed improvement, accuracy of most monthly stocks data series remained about the same. In general, revisions in monthly stocks data, although large volumetrically, were proportionally small during 1983.

Figure 2. Range of Percent Errors of Interim Stocks Data.



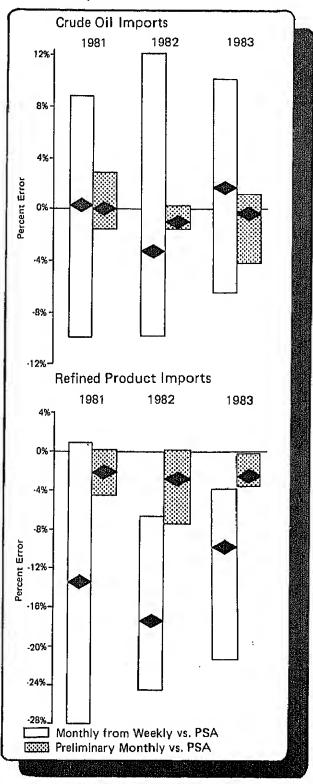
Note: Diamond = Median of percent errors; i.e., the average of the two middle values when the values are arranged in order of magnitude.

Bar = Range of percent errors occurring during the year; i.e., the upper point of the bar is the maximum percent error and its lower end point is the minimum percent error.

Source: Energy Information Administration

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Figure 3. Range of Percent Errors of Interim Imports Data



Note: Diamond = Median of percent errors; i.e., the average of the two middle values when the values are arranged in order of magnitude.

Bar = Range of percent errors occurring during the year; i.e., the upper end point of the bar is the maximum percent error and its lower end point is the minimum percent error.

Source: Energy Information Administration.

### **Imports**

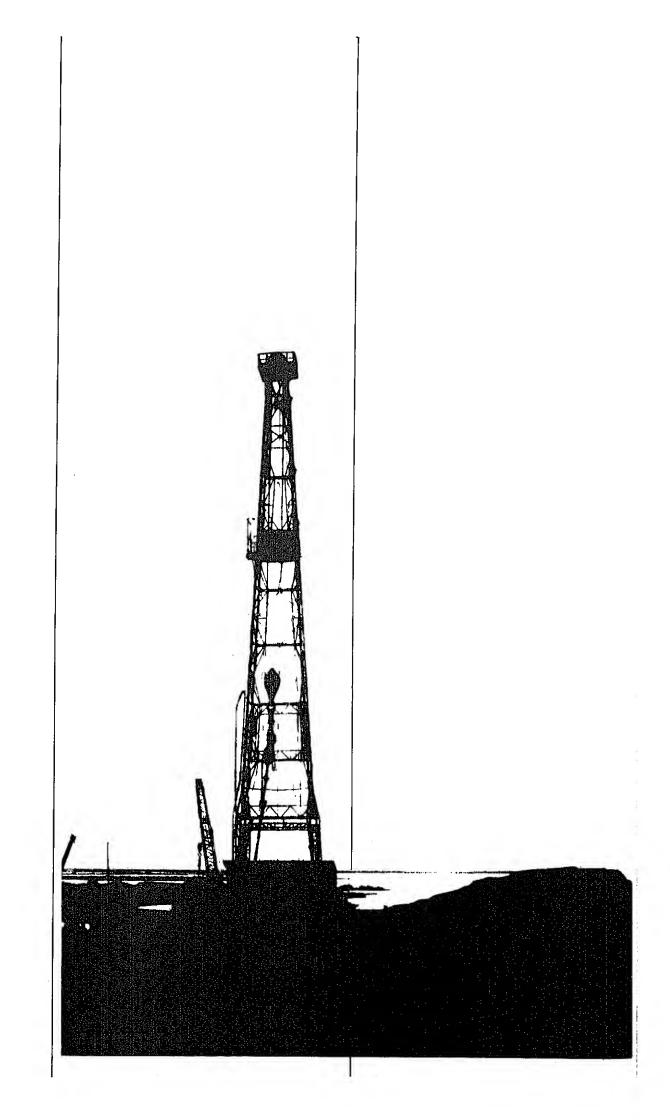
Figure 3 shows that the accuracy of weekly crude oil and refined product imports data improved slightly in 1983. Weekly imports data show relatively large errors. Imports data are highly variable and cannot be estimated from a sample with the same precision as the other petroleum variables. In addition, most imports data are estimated by respondents. Weekly estimates of refined product imports are almost always low, because small companies, which are not in the weekly sample, tend to exhibit irregular import patterns; i.e., they import large amounts of finished products only once or twice a year.

Accuracy of monthly refined product Imports data improved in 1983. In general, Imports data are subject to larger revision than the other petroleum variables, because final company import records are not available until forms have been verified by the U.S. Customs Service.

### Conclusion

Data quality efforts have enabled EIA to advance the timing of its weekly and monthly petroleum supply publications while maintaining the accuracy of most data series. Overall improvement in petroleum supply data has been a joint effort involving more timely and consistent reporting by respondents, and the development of systematic processing procedures, improved edit and estimation methods, and more thorough follow-up and reconciliation of aberrant data.





Crude Oil' and Petroleum Products Overview

		Fi	eld Production	,	Stock Wit	hdrawai²		Ending Stocks <sup>3</sup>
		Total	Crude Oil	Natural Gas Plant Production	Crude Oil <sup>5</sup>	Petroleum Products	Petroleum Products Supplied	Crude Oll <sup>5</sup> and Petroleum Products
				Thousand Bai	rrels per Day	<u> </u>		Million Barrel
		40.075	0.200	1,738	11	-146	17,308	1,008
1973	AVERAGE	10,975	9,208	1,688	-62	-117	16,653	8 1,074
1974	AVERAGE	10,498	8,774		8 -17	8 145	16,322	1,133
1975	AVERAGE	10,045	8,375	1,633	-39	96	17,461	1,112
1976	AVERAGE	9,774	8,132	1,603		-378	18,431	1,312
1977	AVERAGE	9,913	8,245	1,618	-170	172	18,847	1,278
1978	AVERAGE	10,328	8,707	1,567	-78	-25	18,513	1,341
1979	AVERAGE	10,179	8,552	1,584	-148			8 1,392
1980	AVERAGE	10,214	8,597	1,573	-98	-42	17,056	
1981	AVERAGE	10,230	8,572	1,609	<sup>8</sup> -290	<sup>8</sup> 130	16,058	1,484
4000	1	10,128	8,509	1,578	-401	1,298	16,124	1,456
1982	January		8,702	1,563	-242	1,230	16,001	1,428
	February	10,312	8,667	1,572	121	1,047	15,560	1,392
	March	10,284	8,591	1,542	-37	1,583	16,046	1,346
	April	10,188		1,518	29	-66	14,847	1,347
	Мау	10,244	8,683		40	-489	14,998	1,360
	June	10,212	8,646	1,511	-147	-926	14,821	1,393
	July	10,229	8,658	1,513		-44	14,839	1,408
	August	10,215	8,634	1,524	-440	-447	15,022	1,414
	September	10,279	8,701	1,518	263	-447 -47	14,859	1,432
	October	10,299	8,701	1,530	-548		15,009	1,455
	November	10,359	8,697	1,609	-398	-361		<sup>8</sup> 1,430
	December	10,276	8,598	1,628	128	688	15,487	- 1,400
	AVERAGE	10,252	8,649	1,550	-136	283	15,296	
4000	la-una.	10,331	8,697	1,580	<sup>8</sup> -499	8 772	14,722	1,452
1983	January	10,388	8,758	1,575	-320	1,113	14,792	1,430
	February		8,700	1,541	83	1,810	15,541	1,372
	March	10,279	8,776	1,506	-402	308	14,692	1,374
	April	10,322	8,631	1,493	-15	-602	14,505	1,394
	May	10,190		1,523	-122	-276	15,289	1,405
	June	10,261	8,667	1,539	233	-909	15,019	1,426
	July	10,228	8,636		-796	-271	15,480	1,460
	August	10,284	8,679	1,562	-239	-621	15,506	1,485
	September	10,447	8,784	1,602		-442	14,962	1,508
	October	10,434	8,771	1,604	-274	-182	15,500	1,510
	November	10,461	8,770	1,641	114		16,726	1,454
	December	9,983	8,397	1,544	-329	2,133		1,10
	AVERAGE	10,299	8,688	1,559	-214	234	15,231	
400	Lionussi	10,282	8,659	1,585	-342	1,085	16,726	1,430
1984	January	10,410	8,726	1,629	186	-1,353	15,389	1,464
	February		8,718	1,588	-2	643	16,017	1,444
	March	. 10,354	8,688	1,616	-565	-128	15,484	1,465
	April	10,347		1,610	-616	-422	15,566	1,497
	May	10,415	8,752	1,612	R −95	R -77	P 15,687	1,502
	June*	10,398	8,743		-240	-103	15,311	1,512
	July**	NA	8,769	NA NA	-242	-38	15,745	•
	AVERAGE	NA	8,722	NA	-242		,.	

<sup>1</sup> Includes lease condensate.

<sup>&</sup>lt;sup>2</sup> A negative number indicates an increase in stocks and a positive number indicates a decrease.

A negative number indicates an increase in stocks and a positive number indicates a decrease.
 Stocks are totals as of end of period.
 Includes crude oil, natural gas plant production, other hydrocarbons, and alcohol.
 Includes stocks located in the Strategic Petroleum Reserve.
 Includes crude oil for storage in the Strategic Petroleum Reserve.
 Net Imports equal Imports minus Exports.
 In January 1975, 1981, and 1983, numerous respondents were added to surveys affecting stocks reported and stock withdrawal calculations. See Explanatory Note 10.

Footnotes continued on following page.

Crude Oil<sup>1</sup> and Petroleum Products Overview (continued)

		Imports		· · · · · · · · · · · · · · · · · · ·	Exports		
	Total	Crude Oll <sup>6</sup>	Petroleum Products	Total	Crude Oll	Petroleum Products	Net <sup>7</sup> Imports
			Thous	and Barrels pe	r Day	<u> </u>	
AVERAGE	6,256	3,244	3,012	231	2	229	6,025
AVERAGE	6,112	3,477	2,635	221	3	218	5,892
AVERAGE	6,056	4,105	1,951	209	6	204	5,846
AVERAGE	7,313	5,287	2,026	223	8	215	
AVERAGE	8,807	6,615	2,193	243	50	193	7,090
AVERAGE	8,363	6,356	2,008	362			8,565
AVERAGE	8,456	6,519	1,937	472	158	204	8,002
AVERAGE	6,909	5,263	1,646	544	235	237	7,984
AVERAGE	5,996	4,396			287	258	6,365
	0,550	4,390	1,599	595	228	367	5,401
January	5,332	3,693	1,639	829	238	591	4,503
ebruary	4,807	2,990	1,817	804	304	499	4,003
<b>v</b> larch	4,484	2,874	1,610	882	321	561	
April	4,378	2,849	1,529	786	174		3,602
√iay	4,811	3,309	1,503	803	262	611	3,593
lune	5,327	3,836	1,491			542	4,008
luly	5,890	4,248		703	94	609	4,624
August	5,244		1,642	741	229	512	5,149
September		3,851	1,392	,858	304	554	4,386
	5,414	3,636	1,778	791	184	606	4,624
October	5,306	3,670	1,636	932	270	662	4,374
lovember	5,744	3,862	1,882	786	262	524	4,958
December	4,606	3,000	1,605	860	193	667	3,746
AVERAGE	5,113	3,488	1,625	815	236	579	4,298
anuary	4,438	2,964	1,474	973	117	856	3,464
ebruary	3,726	2,267	1,459	865	262	603	2,861
1arch	3,690	2,290	1,400	801	174	627	
pril	4,727	3,118	1,609	809	88	721	2,889
lay	5,089	3,360	1,729	848	280		3,918
une	5,326	3,577	1,749	774		568	4,241
uly	5,741	3,871	1,870	571	144	630	4,552
ugust	6,159	4,227	1,933		145	426	5,170
eptember	6,129	4,210		663	172	491	5,496
ctober	5,258	3,446	1,919	684	177	507	5,445
ovember	5,210		1,812	576	140	436	4,682
ecember	5,033	3,337	1,873	679	186	494	4,531
AVERAGE		3,213	1,820	639	95	544	4,394
AVERAGE	5,051	3,329	1,722	739	164	575	4,312
anuary	5,347	3,029	2,318	575	153	422	4,772
ebruary	5,643	2,952	2,691	582			5,061
	5,253	3,455					4,413
	5,319	3,417					4,413
ay	5,916						
	R 5,304						5,150
ily**	5,038						4,440
AVERAGE		•					NA NA
arch pril ay ine* ily** AVER	AGE	5,253 5,319 5,916 R 5,304 <i>5,038</i> AGE 5,401	5,253 3,455 5,319 3,417 5,916 3,927 R 5,304 R 3,410 5,038 3,616 AGE 5,401 3,405	5,253 3,455 1,798 5,319 3,417 1,902 5,916 3,927 1,989 R 5,304 R 3,410 R 1,893 5,038 3,616 1,423 AGE 5,401 3,405 1,997	5,253 3,455 1,798 840 5,319 3,417 1,902 655 5,916 3,927 1,989 766 R 5,304 R 3,410 R 1,893 864 5,038 3,616 1,423 NA AGE 5,401 3,405 1,997 NA	5,253 3,455 1,798 840 236 5,319 3,417 1,902 655 172 5,916 3,927 1,989 766 219 R 5,304 R 3,410 R 1,893 864 222 5,038 3,616 1,423 NA NA AGE 5,401 3,405 1,997 NA NA	5,253 3,455 1,798 840 236 605 5,319 3,417 1,902 655 172 483 5,916 3,927 1,989 766 219 548 R 5,304 R 3,410 R 1,893 864 222 642 5,038 3,616 1,423 NA NA NA

Footnotes continued.

\* See Explanatory Note 9.1.

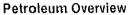
\*\* Italics denote estimates based upon preliminary data. See Explanatory Note 8.

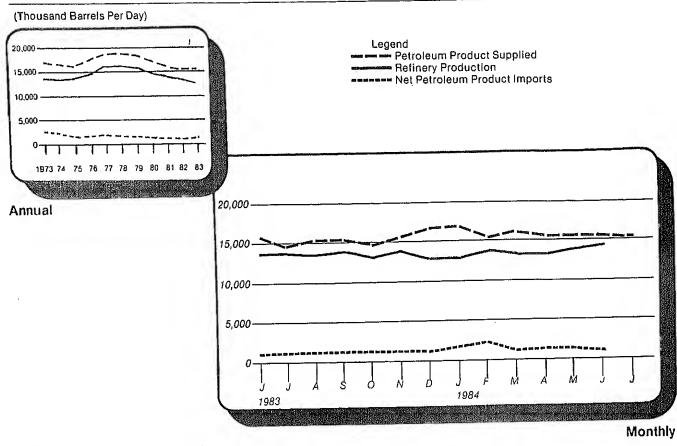
R = Revised data. NA = Not available.

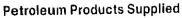
Note: Geographic coverage is the 50 United States and the District of Columbia.

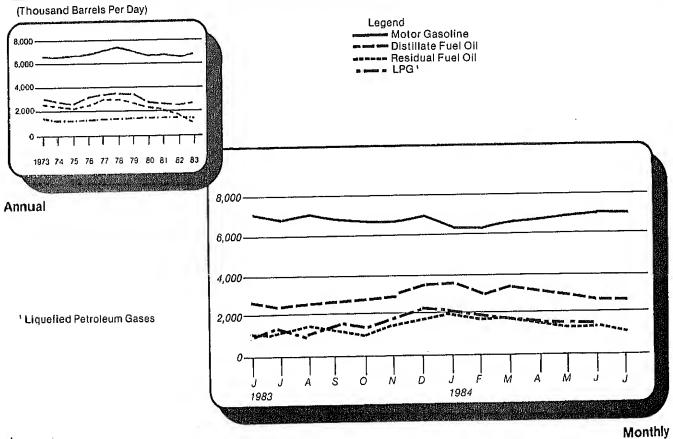
Total may not equal sum of components due to independent rounding.

Source: See the last page of this section.

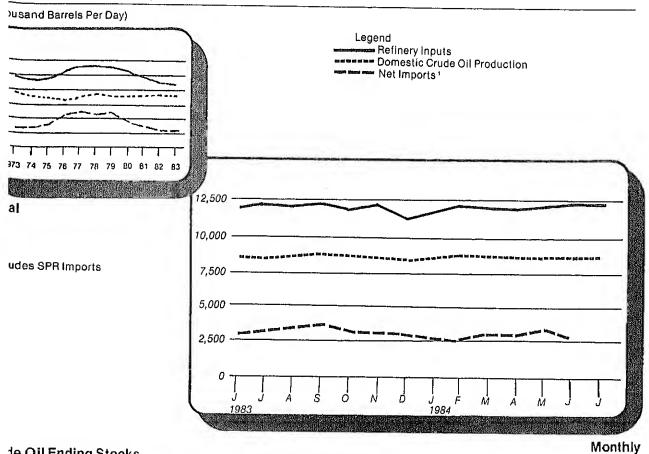




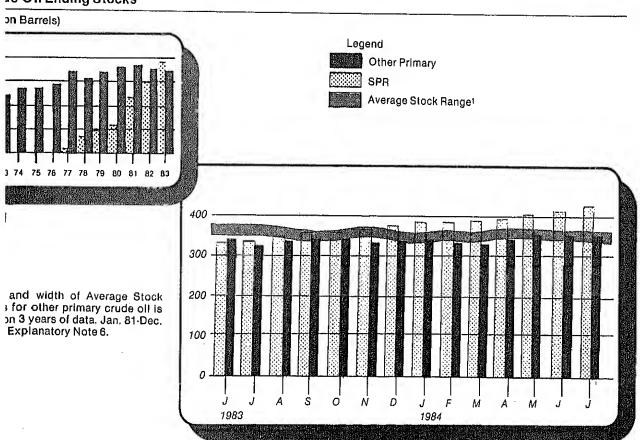




### ide Oil Supply and Disposition



### de Oil Ending Stocks



					Sur	ply			
		Field Pro	oduction		Imports		Stock Wit	hdrawal <sup>3</sup>	
		Total Domestic	Alaskan	Total	SPR⁴	Other	SPR <sup>4</sup>	Other	Unac- counted for Crude Oil
				T	housand Ba	rrels per Day	/		
1973 1974 1975 1976 1977 1978 1979	AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE	9,208 8,774 8,375 8,132 8,245 8,707 8,552 8,597	198 193 191 173 464 1,229 1,401	3,244 3,477 4,105 5,287 6,615 6,356 6,519 5,263	21 162 67 44	3,244 3,477 4,105 5,287 6,594 6,195 6,452 5,219	-20 -163 -67 -45	11 -62 -17 -39 -150 84 -81 -52	3 -25 17 77 -6 -57 -11
1981		8,572	1,609	4,396	256	4,141	-336	6 46	83
1982	January February March April May June July August September October November December	8,509 8,702 8,667 8,591 8,683 8,646 8,658 8,634 8,701 8,701 8,598	1,705 1,707 1,696 1,691 1,707 1,665 1,710 1,697 1,705 1,706 1,676 1,682	3,693 2,990 2,874 2,849 3,309 3,836 4,248 3,851 3,636 3,670 3,862 3,000	170 159 185 190 204 105 97 208 139 216 180 124	3,523 2,830 2,689 2,659 3,105 3,732 4,150 3,643 3,497 3,454 3,683 2,877	-159 -213 -235 -233 -176 -105 -97 -208 -143 -216 -179 -125	-242 -29 357 196 205 144 -50 -232 406 -332 -219 252	101 156 2 231 111 133 -20 189 -210 249 -124
	AVERAGE	8,649	1,696	3,488	165	3,323	-174	38	71
	January February March April May June July August September October November December AVERAGE	8,697 8,758 8,700 8,776 8,631 8,667 8,636 8,679 8,784 8,771 8,770 8,397 8,688	1,732 1,717 1,732 1,721 1,662 1,687 1,715 1,697 1,738 1,733 1,720 1,711	2,964 2,267 2,290 3,118 3,360 3,577 3,871 4,227 4,210 3,446 3,337 3,213 3,329	219 197 201 205 289 190 274 350 309 202 171 193 234	2,746 2,070 2,089 2,913 3,071 3,387 3,597 3,876 3,901 3,244 3,166 3,020 3,096	-219 -197 -184 -197 -293 -188 -264 -358 -307 -201 -135 -252 -234	6 -280 -123 267 -205 278 66 497 -438 68 -73 250 -78	170 262 31 98 169 370 -167 281 -30 44 34 117
	January February March April May June* July** AVERAGE	8,659 8,726 8,718 8,686 8,752 8,743 8,769 8,769	1,741 1,740 1,740 1,725 1,793 1,792 1,769 1,757	3,029 2,952 3,455 3,417 3,927 R3,410 <i>3,616</i> 3,405	200 85 148 170 246 R 309 <i>308</i> 210	2,829 2,868 3,307 3,247 3,681 R 3,101 3,308 3,195	-173 -96 -147 -170 -245 R -309 -319 -209	-169 282 145 -396 -371 R 214 <i>79</i> -33	451 487 66 590 463 490 NA NA

Includes lease condensate.

Includes fease condensate.
 Stocks are totals as of end of period.
 A negative number indicates an increase in stocks and a positive number indicates a decrease.
 Strategic Petroleum Reserve.
 Beginning in January 1983, crude oil used directly as fuel is shown as product supplied.
 Stocks of Alaskan crude oil in transit were included beginning in January 1981. Stock withdrawals are calculated using new basis stock levels. See Explanatory Notes 10 and 11. Footnotes continued on following page.

Crude Oil<sup>1</sup> Supply and Disposition (continued)

		Supply	<del></del>	Dispo	sition	T	E	nding Stock	§ <sup>2</sup>
		Crude Used Directly <sup>5</sup>	Crude Losses	Refinery Inputs	Exports	Products Supplied <sup>5</sup>	Total Crude Oll	SP,R4	Othe Prima
			Thous	and Barrels p	er Day			illion Barrel	5
1973	AVERAGE	-19	13	12,431	2	NA	242		24
	AVERAGE	-15	13	12,133	3	NA	265		20
	AVERAGE	-17	13	12,442	6	NA	271		2
	AVERAGE	-18	15	13,416	8	NA	285		28
	AVERAGE	-14	16	14,602	50	NA	348	7	34
	AVERAGE	-14	16	14,739	158	NA	376	67	30
	AVERAGE	-13	16	14,648	235	NA	430	91	33
	AVERAGE	-13	15	13,481	287	NA	<sup>6</sup> 466	108	6 g
1981	AVERAGE	-58	5	12,470	228	NA	594	230	36
982 Ja		-63	3	11,599	238	NA	606	235	37
	ebruary	-64	2	11,236	304	NA	613	241	37
	larch	-63	5	11,276	321	NA	609	249	36
	pril	-65	3	11,392	174	NA	610	<b>2</b> 56	36
	ay	-62	3	11,806	262	NA	609	261	34
	ine	-60	7	12,494	94	NA	608	264	34
	ıly	-60	3	12,446	229	NA	613	267	34
	ugust	<b>-</b> 57	2	11,871	304	NA	626	274	35
_	eptember	<del>-</del> 56	4	12,146	184	NA	619	278	34
	ctober	-51	2	11,749	270	NA	636	285	35
	ovember	-51	1	11,724	262	NA	648	290	38
	ecember	-53	1	11,514	193	NA	6 644	294	6 35
,	AVERAGE	-59	3	11,774	236	NA			
983 Ja		NA	2	11,143	117	71	660	301	36
	ebruary	NA	3	10,633	262	71	669	306	36
	arch	NA	2	10,859	174	70	667	312	35
	oril	NA	2	11,433	88	68	679	318	36
Ma	•	NA	1	11,800	280	63	679	327	35
	ne	NA	( <sup>S</sup> )	12,284	144	64	683	332	35
Ju	•	NA	2	12,360	145	65	676	341	33
	igust	NA	1	12,152	172	64	700	352	34
	ptember	NA	1	12,482	177	66	708	361	34
	ctober	NA	1	11,782	140	63	716	367	34
	ovember	NA	2	12,004	186	64	713	371	34
	cember	NA	1	11,234	95	67	723	379	34
A	AVERAGE	NA	2	11,685	164	66			
84 Ja		NA	1	11,579	153	64	733	384	34
	bruary	NA	1	12,100	185	65	727	387	34
	arch	NA	2	11,936	236	62	728	392	33
Аp		NA	( <sup>S</sup> )	11,893	172	64	744	397	34
Ma	•	NA	2	12,243	219	62	764	404	35
	ne*	NA	2	R 12,263	222	61	R 766	R414	R 35
	y**	NA	NA	12,210	NA	NA	776	423	35.
A	VERAGE	NA	NA	12,031	NA	NA			00.
Footnot (S) = I * See ** Italic R = Re Note: G	Explanatory I es denote esti evised data. I Geographic co	barrels per d	ay. upon prelimi ilable. 50 United S	inary data. Se	NA ee Explanato District of C	NA ry Note 8.		·	

		i			I	mports fro	m OPEC	Sources1					
		Algeria	Libya	Saudi Arabla	United Arab Emirates	Indo- nesia	Iran	Nigeria	Vene- zuela	Other OPEC <sup>2</sup>	Total OPEC	Total Arab OPEC	
			Thousand Barrels per Day										
1973	AVERAGE	136	164	486	71	213	223	459	1,135	106	2,993	918	
1974	AVERAGE	190	4	461	74	300	469	713	979	88	3,280	752	
1975	AVERAGE	282	232	715	117	390	280	762	702	122	3,601	1,380	
976	AVERAGE	432	453	1,230	254	539	298	1,025	700	134	5,066	2,424	
1977	AVERAGE	559	723	1,380	335	541	535	1,143	690	287	6,193	3,18	
978	AVERAGE	649	654	1,144	385	573	555	919	645	226	5,751	2,963	
979	AVERAGE	636	658	1,356	281	420	304	1,080	690	212	5,637	3,056	
980	AVERAGE	488	554	1,261	172	348	9	857	481	130	4,300	2,55	
981	AVERAGE	311	319	1,129	81	366	0	620	406	90	3,323	1,848	
1982 .	lanuary	254	161	877	111	289	0	663	376	128	2,859	1,403	
	ebruary	139	92	693	89	244	0	584	355	102	2,297	1,05	
	March	91	37	555	155	200	0	522	399	91	2,051	860	
	pril	85	0	511	122	215	0	427	426	85	1,871	746	
	day	179	Õ	601	116	236	Ö	222	422	54	1,830	89	
	une	115	ŏ	593	94	215	72	537	361	110	2,096	820	
	uly	159	ŏ	660	108	327	69	910	356	95	2,685	96	
	ugust	181	ŏ	489	133	271	27	574	299	133	2,107	818	
	ieptember	179	Ö	432	57	191	21	477	518	69	1,943	677	
	october	249	7	494	61	242	108	313	504	106	2,084	810	
	lovember	243 247	14	489	47	283	34	479	528	115	2,235	797	
	ecember	155	0	237	12	265	88	462	399	73	1,690	42	
U	AVERAGE	170	26	552	92	248	35	514	412	97	2,146	854	
000 1	anuary	207	0	282	47	055	40	186	007	54		E0.	
	ebruary	115	0	214	47	255	43		337		1,412	537	
	ebitaly larch	63	0	103	9 0	217	0	92	393	28	1,068	338	
		227	0			138	0	121	440	201	1,066	183	
	pril			162	( <sup>3</sup> )	210	0	186	523	125	1,432	389	
	lay	286	0	122	12	405	37	385	455	69	1,771	420	
	une	300	0	188	40	466	38	467	335	138	1,973	528	
	Jly	283	0	182	64	464	112	525	434	187	2,251	606	
	ugust	378	0	448	52	433	213	464	511	230	2,728	900	
	eptember	423	0	587	21	501	86	324	432	221	2,595	1,08	
	ctober	261	0	638	16	368	12	307	337	169	2,108	938	
	ovember	184	0	545	56	302	21	215	452	135	1,910	807	
	ecember	144	0	569	45	294	9	329	415	163	1,969	826	
	AVERAGE	240	0	337	30	338	48	302	422	144	1,862	632	
	anuary	242	0	463	114	278	0	243	547	51	1,939	828	
	ebruary	348	0	324	33	267	0	244	481	174	1,871	723	
	arch	283	0	307	112	284	67	260	354	127	1,792	717	
	pril	280	0	320	95	221	0	288	581	158	1,944	734	
	ay	456	0	329	240	480	Ō	289	621	242	2,657	1,131	
	ine	284	0	411	46	415	Ō	243	574	139	2,112	808	
	AVERAGE	316	0	359	108	325	11	261	526	148	2,055	825	

Excludes petroleum imported into the United States indirectly from OPEC countries, primarily from Caribbean and West European areas, as refined petroleum products which were refined from crude oil produced in OPEC countries.
 Includes Ecuador, Gabon, Iraq, Kuwait, and Qatar.
 Includes Algeria, Libya, Saudi Arabia, United Arab Emirates, Iraq, Kuwait, and Qatar.

Footnotes continued on following page.

Crude Oil and Petroleum Product Imports ( continued )

					10	mports fror	n Non-OPE	C Sources	4				
		Baha- mas	Canada	Mexico	Nether- lands Antilles	Trinidad and Tobago	United Kingdom	Puerto Rico	Virgin Islands	Other Non OPEC	Total Non OPEC	Total Imports	
						Thousa	nd Barrels (	oer Day		<b>.</b>	I		
1973	AVERAGE	174	1,325	16	585	255	15	99	329	465	3,263	6,256	
1974	AVERAGE	164	1,070	8	511	251	8	90	391	340	2,832	6,112	
1975	AVERAGE	152	846	71	332	242	14	90	406	300	2,454	6,056	
1976	AVERAGE	118	599	87	275	274	31	88	422	353	2,247	7,313	
1977	AVERAGE	171	517	179	211	289	126	105	466	550	2,614	8,807	
1978	AVERAGE	160	467	318	229	253	180	94	429	484	2,613	8,363	
1979	AVERAGE	147	538	439	231	190	202	92	431	548	2,819	8,456	
1980	AVERAGE	78	455	533	225	176	176	88	388	491	2,609	6,909	
1981	AVERAGE	74	447	522	197	133	375	62	327	534	2,672	5,996	
1982 Ja		58	513	425	179	106	346	62	334	452	2,474	5,332	
	ebruary	67	537	476	221	120	181	38	362	508	2.510	4.807	
	arch	43	437	503	189	118	294	62	307	480	2,433	4,484	
	pril	82	360	476	184	166	247	36	266	690	2,507	4,378	
	ay	77	419	766	152	95	516	47	302	607	2,981	4,811	
	ine	32	481	797	148	129	557	58	322	708	3,231	5,327	
	ıly	64	536	783	158	118	433	38	376	698	3,204	5,890	
	ugust	80	443	853	145	106	520	24	317	650	3,137	5,244	
	eptember	92	493	897	195	89	631	51	278	746	3,472	5,414	
_	ctober	45	459	682	148	109	666	52	262	801	3,222	5,306	
	ovember	51	553	860	212	90	623	81	334	706	3,508	5,744	
De	ecember	88	561	689	174	102	438	48	336	480	2,916	4,606	
1	AVERAGE	65	482	685	175	112	456	50	316	627	2,968	5,113	
983 Ja		68	534	849	228	73	314	40	299	621	3,026	4,438	
	bruary	92	586	722	183	81	193	50	192	558	2.658	3,726	
	arch	86	488	775	187	78	240	43	162	565	2,624	3,690	
Ar		174	454	981	216	85	421	20	183	759	3,295	4,727	
Ma		135	518	944	153	108	484	42	235	699	3,318	5,089	
Ju		137	586	830	173	120	440	48	262	757	3,353	5,326	
Ju	,	69	634	849	198	107	369	37	364	864	3,490	5.741	
	gust	144	542	906	197	90	461	40	313	738	3,431	6,159	
	ptember	148	533	849	261	82	475	33	307	845	3,534	6,129	
	tober	171	532	771	172	106	414	48	357	580	3,151	5,258	
	vember	148	556	726	144	110	334	55	427	801	3,300	5,210	
	cember	127	604	710	153	113	429	22	278	628	3.063	5,033	
Α	VERAGE	125	547	826	189	96	382	40	282	701	3,189	5,033 5,051	
984 Jai		152	624	705	277	54	382	53	390	772	3,408	5,947	
	bruary	142	620	747	288	77	338	58	418	1,083	3,772	5,643	
	irch	88	726	707	169	93	400	34	247	996	3,460	5,253	
Api		88	691	859	207	91	282	37	257	863	3,375	5,319	
Ma	•	31	715	675	192	57	418	38	336	796	3,259	5,916	
Jur		50	499	732	234	104	318	53	268	934	3,192	5,304	
Α	VERAGE	92	647	737	227	79	357	45	319	905	3,408	5,463	

Source: See the last page of this section.

Includes petroleum imported into the United States indirectly from OPEC countries, primarily from Caribbean and West European areas, as refined petroleum products which were refined from crude oil produced in OPEC countries.

which were refined from crude oil produced in OFEC countries,

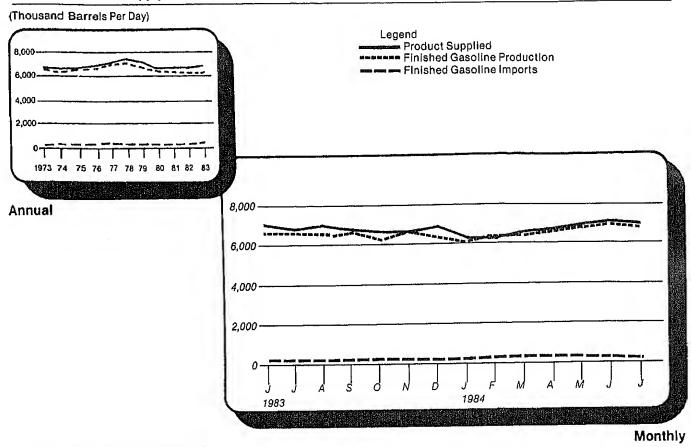
(s) = Less than 500 barrels per day.

Note: Beginning in October 1977, Strategic Petroleum Reserve imports are included.

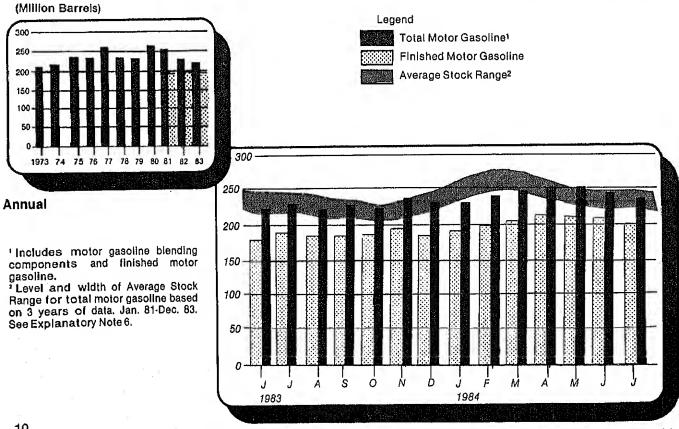
Total may not equal sum of components due to independent rounding.

Geographic coverage: The 50 United States and the District of Columbia.

#### **Motor Gasoline Supply and Disposition**



#### **Motor Gasoline Ending Stocks**



## Finished Motor Gasoline Supply and Disposition

			Supply			Disp	osition		Ending	Stocks <sup>1</sup>
		Total Produc-		Stock With-		Pi	roducts Suppl	ed	Total	Finished
		tlon	Imports <sup>2</sup>	drawai <sup>2 3</sup>	Exports	Total	Unleaded⁴	Unleaded	Motor Gasoline <sup>5</sup>	Motor Gasoline
				Thousand Ba	ırrels per Day			Percent of Total	Million	Barrels
1973		6,535	134	9	4	6,674	NA	NA	209	
1974		6,360	204	-24	2	6,537	NA	NA	6 218	
1975		6,520	184	<sup>6</sup> ~28	2	6,675	NA	NA	235	
1976	AVERAGE	6,841	131	10	3	6,978	NA	NA	231	
1977	AVERAGE	7,033	217	-72	2	7,177	1,976	27,5	258	
1978	AVERAGE	7,169	190	54	1	7,412	2,521	34.0	238	
1979	AVERAGE	6,852	181	2	( <sup>s</sup> )	7,034	2,798			
1980		6,506	140	-66	1	6,579		39.8	237 <sup>6</sup> 261	
1981		6,405	157	6 28	2	6,588	3,067 3,264	46.6 49.5	253	
1982	January	6,167	128	-316	18	5,961	0.067	C4 F	004	
	February	5,899	133	172	8	6,196	3,067	51.5	261	213
	March	5,994	183	334	44		3,210	51.8	257	208
	April	6,095	185	650		6,466	3,358	51.9	247	198
	May	6,319	182		33	6,897	3,495	50.7	221	179
	June	6,754		177	23	6,655	9,415	51.3	214	173
	July		230	-134	14	6,835	3,565	52.2	219	177
		6,768	225	-178	24	6,790	3,577	52.7	226	183
	August	6,419	291	-81	16	6,614	3,526	53,3	227	185
	September	6,527	223	-198	22	6,531	3,404	52.1	234	191
	October	6,262	185	-42	15	6,391	3,351	52.4	234	192
	November	6,273	211	101	11	6,574	3,451	52.5	230	189
	December	6,542	178	-165	7	6,549	3,485	53.2	6 235	6 194
	AVERAGE	6,338	197	25	20	6,539	3,409	52.1	200	- 104
1983	January	6,065	153	<sup>6</sup> –167	(s)	6,051	3,364	55.6	250	207
	February	5,848	128	24	(s)	6,000	3,264	54.4	250	207
	March	5,906	186	768	`´23	6,836	3,622	53.0	223	183
	April	6,201	255	-3	1	6,452	3,492	54,1	221	
	May	6,397	305	-83	i	6,617	3,558	53.8		183
	June	6,655	277	84	22	6,994	3,792		223	185
	July	6,707	302	-225	18	6,765		54.2	223	183
	August	6,537	250	161	13		3,746	55,4	231	190
	September	6,611	279	-149		6,936	3,836	55,3	226	185
	October	6,188	330	72	14	6,727	3,691	54.9	229	189
	November	6,634	269		2	6,588	3,711	56.3	227	187
	December	6,308		-298	2	6,603	3,692	55.9	236	196
	AVERAGE	6,340	224 <b>247</b>	339	25	6,846	3,966	57.9	222	186
		0,040	241	45	10	6,622	3,647	55.1		
	January	6,037	233	-1	1	6,268	3,606	57.5	225	186
	February	6,320	303	-384	2	6,237	3,585	57.5 57.5	237	
	March	6,375	343	-197	9	6,512	3,747			197
	April	6,528	308	-153	( <sup>8</sup> )	6,682		57.5	243	203
	May	6,650	329	-106	(3)		3,854	57.7 50.1	248	207
	June*	R 6,620	R 272	R 217	17	6,873	3,990	58.1	253	211
	July**	6,537	231			R 7,092	4,210	59,4	R 245	R 204
	AVERAGE	6,438	288	319 . 41	- NA	7,087	NA	NA	236	198
	·	0,400	200	-41	NA	6,681	NA	NA		

Stocks are totals as of end of period.
 Beginning in 1981, excludes blending components.
 A negative number indicates an increase in stocks and a positive number indicates a decrease.

<sup>4</sup> Includes gasohol.

Includes gasonol.
 Includes motor gasoline blending components.
 In January 1975, 1981, and 1983, numerous respondents were added to surveys affecting stocks reported and stock withdrawal calculations. See Explanatory Note 10.
 Beginning in January 1981, survey forms were modified. See Explanatory Note 12.

<sup>\*\*</sup> See Explanatory Note 9.3.

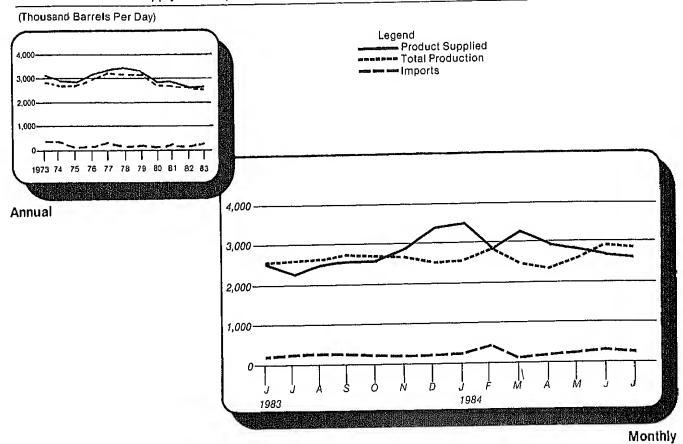
\*\* Italics denote estimates based upon preliminary data. See Explanatory Note 8.

R = Revised data. NA = Not available. (s) = Less than 500 barriets per day.

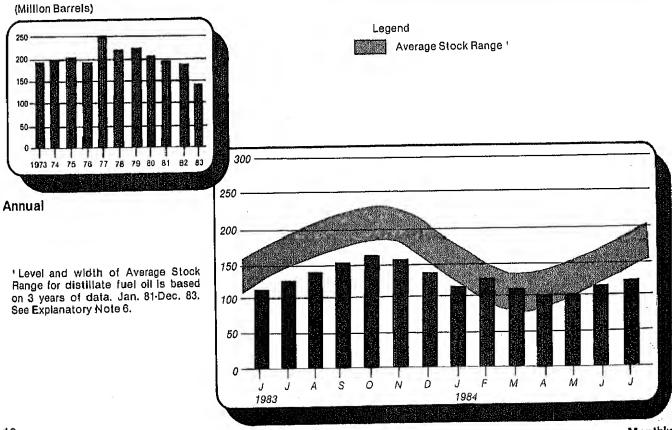
Note: Geographic coverage is the 50 United States and the District of Columbia.

Total may not equal sum of components due to independent rounding. Source: See the last page of this section.

# Distillate Fuel Oil Supply and Disposition



## Distillate Fuel Oil Ending Stocks



			Su	ipply		Dispo	noitle	Ending Stocks <sup>1</sup>
		Total Production	Imports	Stock Withdrawai <sup>2</sup>	, Crude Used Directly <sup>3</sup>	Exports	Products Supplied <sup>3</sup>	
				Thousand Bar	rels per Day			Million Barrels
1973	AVERAGE	2,822	392	-115	2	9	3,092	196
1974	AVERAGE	2,669	289	-9	2	2	2,948	4 200
1975	AVERAGE	2,654	155	4 40	2	1	2,851	209
1976	AVERAGE	2,924	146	62	1	1	3,133	186
1977	AVERAGE	3,278	250	-176	i	ì	3,352	250
1978	AVERAGE	3,167	173	93	ì	à	3,432	216
1979	AVERAGE	3,153	193	-34	i	3	3,311	229
1980	AVERAGE	2,662	142	64	i	3	2,866	4 205
1981	AVERAGE5	2,613	173	4 38	10	5	2,000	
,	71 milyton	2,010	1,0	. 50	10	J	2,829	192
1982	January	2,591	97	876	10	90	3,484	164
	February	2,427	132	605	11	90	3,085	147
	March	2,288	48	682	10	84	2,945	126
	April	2,358	59	612	13	64	2,978	108
	May	2,618	74	-183	10	75	2,444	114
	June	2,729	102	-335	10	55	2,452	124
	July	2,734	125	-789	11	24	2,058	148
	August	2,507	80	-339	10	40	2,218	159
	September	2,657	61	-85	12	139	2,507	161
	October	2,838	91	-289	8	66	2,581	170
	November	2,860	145	-514	8	24	2,475	
	December	2,655	109	225	10	143		186
	AVERAGE	2,606	93	35	10	74	2,855 2,671	4 179
1000	January	0.004		4 ===	À			
1203		2,321	68	4 580	NA	173	2,797	168
	February March	2,135	59	691	NA	105	2,780	148
		1,993	42	971	NA	59	2,947	118
	April	2,171	73	500	NA	47	2,697	103
	May	2,444	147	-186	NA	50	2,354	109
	June	2,546	179	-161	NA	40	2,524	114
	July	2,604	267	-546	NA	55	2,270	131
	August	2,615	301	-379	NA	43	2,495	142
	September	2,739	259	-386	NA	37	2,575	154
	October	2,681	260	-276	NA	55	2,611	163
	November	2,680	203	45	NA	54	2,874	161
	December	2,522	221	676	NA	54	3,365	140
	AVERAGE	2,456	174	124	NA	64	2,690	140
1984	January	2.585	270	070				
	February	2,864		676	NA	40	3,490	119
	March		458	-439	NA	41	2,842	132
		2,480	115	727	NA	66	3,256	110
	April	2,347	220	393	NA	- 32	2,929	98
	May	2,633	252	-10	NA	48	2,827	98
	June*	R 2,879	R 266	R -490	NA	53	R 2,602	R113
	July**	2,797	190	<i>-368</i>	NA	NA	2,577	125
	AVERAGE	2,653	251	76	NA	NA	2,934	

Stocks are totals as of end of period.

Source: See the last page of this section.

A negative number indicates an increase in stocks and a positive number indicates a decrease.
 Beginning in January 1983, product supplied for distillate fuel oil does not include crude oil

used directly. See Explanatory Note 4.

In January 1975, 1981, and 1983, numerous respondents were added to surveys affecting stocks reported and stock withdrawal calculations. See Explanatory Note 10.

<sup>&</sup>lt;sup>5</sup> Beginning in January 1981, survey forms were modified. See Explanatory Note 12.

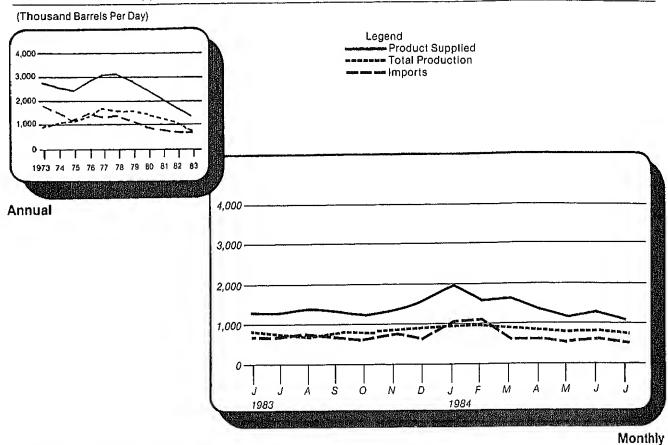
<sup>\*</sup> See Explanatory Note 9.4.

\*\* Italics denote estimates based upon preliminary data. See Explanatory Note 8.

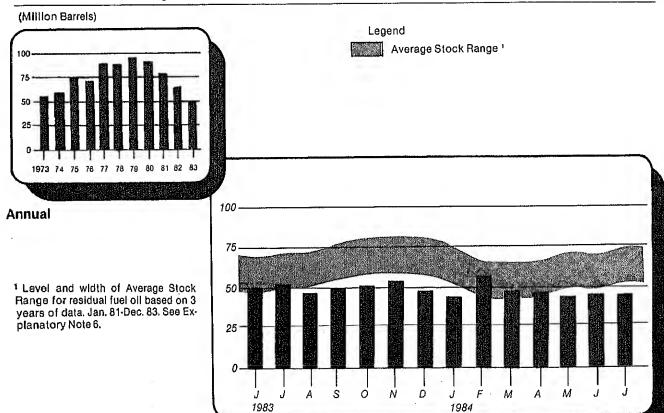
R = Revised data. NA = Not available. (s) = Less than 500 barrels per day.

Note: Geographic coverage is the 50 United States and the District of Columbia. Total may not equal sum of components due to independent rounding.

## Residual Fuel Oil Supply and Disposition



#### **Residual Fuel Oil Ending Stocks**



14 .

#### Residual Fuel Oil Supply and Disposition

			Su	pply		Dispo	osition	Ending Stocks <sup>1</sup>
		Total Produc- tion	Imports	Stock Withdrawal <sup>2</sup>	Crude Used Directly <sup>3</sup>	Exports	Products Supplied <sup>3</sup>	
				Thousand Ba	rels per Day			Million Barrels
1973	AVERAGE	971	1.853	5	17	23	2,822	53
1974	AVERAGE	1,070	1,587	-17	13	14	2,639	4 60
1975	AVERAGE	1,235	1,223	4 2	15	15	2,462	74
1976	AVERAGE	1,377	1,413	5	17	12	2,801	72
1977	AVERAGE	1,754	1,359	-48	13	6	3,071	90
1978	AVERAGE	1,667	1,355	-1	13	13	3,023	90
1979	AVERAGE	1,687	1,151	-15	12	9	2,826	96
1980	AVERAGE	1,580	939	10	12	33	2,508	4 92
1981	AVERAGE5	1,321	800	4 37	48	118	2,088	78
1982	January	1,235	831	301	53	235	2,165	69
	February	1,186	956	363	53	213	2,344	58
	March	1,123	912	12	53	197	1,903	58
	April	1,166	788	150	52	234	1,923	54
	May	1,128	742	-172	52	191	1,560	59
	June	1,074	652	-57	50	217	1,501	61
	July	1,028	657	56	49	239	1,550	59
	August	965	551	203	47	235	1,531	53
	September	1,008	872	-306	44	148	1,470	62 62
	October	955	783	-57	43	234	1,490	64
	November	989	837	-57 94	43	182	1,591	66
	December	989	747	-94 6	43	186	1,598	4 66
	AVERAGE	1,070	776	32	48	209	1,716	. 00
1983	January	972	691	4 258	NA	294	1,626	61
	February	857	647	257	NA	191	1,570	53
	March	835	686	227	NA	169	1,579	46
	April	941	753	-10	NA	310	1,374	47
	May	936	738	-141	NA	190	1,342	51
	June	828	677	36	NA	218	1,323	50
	July	769	684	-64	NA	90	1,299	52
	August	710	739	115	NA	165	1,400	48
	September	826	706	-47	NA	134	1,351	50
	October	807	638	-50	NA NA	153	1,243	51
	November	845	780	-97	NA NA	167	1,362	54
	December	897	649	-97 182	NA NA	141	1,587	49
	AVERAGE	8 <b>52</b>	699	55	NA NA	185	1,421	49
984	January	953	1.061	119	NA	151	1,981	45
•	February	1,003	1,107	-420	NA	87	1,602	58
	March	887	633	321	NA	204	1,637	48
	April	840	637	9	NA NA	130	1,357	47
	May	829	554	35	NA NA	200	1,357	46
	June*	R 841	R 676	R-17	NA NA	200 176		R 47
	July**	749	551	-84	NA NA		R 1,324	
	AVERAGE	871	743			NA NA	1,043	47
	AYENAUE	0/1	743	-1	NA	NA	1,451	

Stocks are totals as of end of period.

Total may not equal sum of components due to independent rounding.

Source: See the last page of this section.

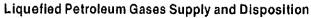
Stocks are totals as or end or period.
 A negative number indicates an increase in stocks and a positive number indicates a decrease.
 Beginning in January 1983, product supplied for residual fuel oil does not include crude oil used directly. See Explanatory Note 4.
 In January 1975, 1981, and 1983, numerous respondents were added to surveys affecting stocks reported and stock withdrawal calculations. See Explanatory Note 10.
 Beginning in January 1981, survey forms were modified. See Explanatory Note 12.
 See Explanatory Note 9.4

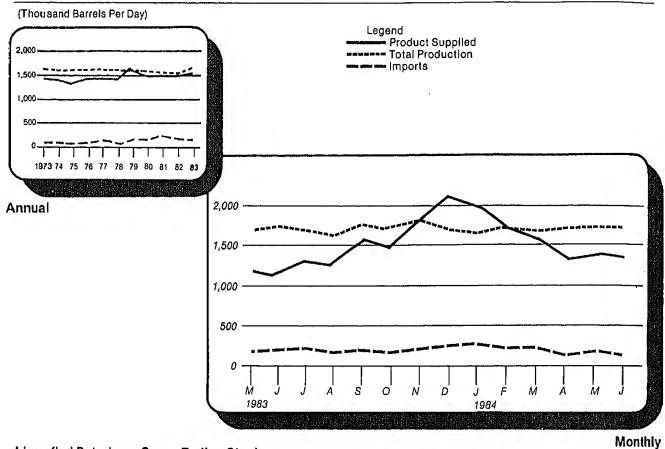
See Explanatory Note 9.4.

<sup>\*\*</sup> Italics denote estimates based upon preliminary data. See Explanatory Note 8.

R = Revised data. NA = Not available. (s) = Less than 500 barrels per day.

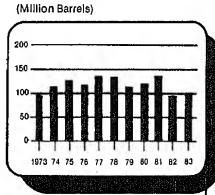
Note: Geographic coverage is the 50 United States and the District of Columbia.





# Liquefied Petroleum Gases Ending Stocks



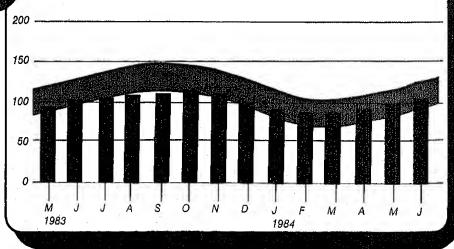


Legend

Average Stock Range1

Annual

<sup>1</sup> Level and width of Average Stock range for liquefied petroleum gases based on 3 years of data, Jan. 81-Dec. 83. See Explanatory Note 6.



### Liquefied Petroleum Gases¹Supply and Disposition

			Supply			Disposition		Ending Stocks <sup>2</sup>
		Total Production	Imports	Stock Withdrawai <sup>3</sup>	Refinery Inputs	Exports	Products Supplied	
				Thousand Ba	rrels per Day	11120		Million Barrels
1973	AVERAGE	1,600	132	-35	220	27	1,449	99
1974	AVERAGE	1,565	123	-38	220	25	1,406	4 113
1975	AVERAGE	1,527	112	4 -35	246	26	1,333	125
1976	AVERAGE	1,535	130	24	260	25	1,404	116
1977	AVERAGE	1,566	161	-55	233	18	1,422	136
1978	AVERAGE	1,537	123	12	239	20	1,413	132
1979	AVERAGE	1,556	217	70	236	15	1,592	111
1980	AVERAGE	1,535	216	-27	233	21	1,469	4 120
1981	AVERAGE	1,571	244	4 -18	289	42	1,466	135
1982	January	1,565	314	443	391	67	1,863	121
	February	1,466	291	243	327	51	1,621	114
	March	1,544	223	· 211	289	74	<b>1,</b> 615	108
	April	1,506	188	98	257	77	1,458	105
	May	1,565	186	-71	234	43	1,403	107
	June	1,515	192	-86	26 <b>2</b>	106	1,254	109
	July	1,476	227	-13	253	37	1,399	110
	August	1,51 <b>1</b>	125	-45	254	61	1,276	111
	September	1,538	247	37	274	85	1,463	110
	October	1,517	194	97	306	81	1,421	107
	November	1,542	267	175	363	37	1,583	102
	December	1,580	258	256	395	56	1,642	4 94
	AVERAGE	1,528	226	111	300	65	1,499	
1983	January	1,611	240	4 520	313	118	1,939	86
	February	1,600	305	128	244	76	1,713	82
	March	1,543	166	-9	197	127	1,377	82
	April	1,607	124	-156	198	116	1,260	87
	May	1,613	167	-225	207	84	1,263	94
	June	1,664	172	-334	203	59	1,241	104
	July	1,656	19 <b>1</b>	-221	217	55	1,354	111
	August	1,586	160	-199	22 <del>9</del>	29	1,289	117
	September	1,705	178	-30	236	86	1,531	118
	October	1,688	160	-81	268	32	1,467	120
	November	1,785	180	70	362	33	1,640	118
	December	1,645	247	575	363	66	2,038	4 101
	AVERAGE	1,642	190	4	253	73	1,509	
1984		1,610	269	4 470	333	23	1,993	93
	February	1,690	237	146	323	41	1,708	89
	March	1,685	241	12	289	68	1,581	89
	April	1,711	155	-170	253	54	1,389	94
	May	1,709	211	-221	244	42	1,412	101
	June*	1,714	158	-189	237	53	1,394	106
	AVERAGE	1,686	212	9	280	47	1,580	

Source: See the last page of this section.

Includes ethane, propane, normal butane, and isobutane.
 Beginning in January 1984, unfractionated stream is reported by individual product.
 Stocks are totals as of end of period.

Stocks are totals as of end of period.
 A negative number indicates an increase in stocks and a positive number indicates a decrease.
 In January 1975, 1981, 1983, and 1984, a new stock basis was established affecting stocks reported and stock withdrawal calculations. See Explanatory Note 10.
 Note: Geographic coverage is the 50 United States and the District of Columbia.
 Total may not equal sum of components due to independent rounding.

#### Other Petroleum Products<sup>1</sup> Supply and Disposition

			Supply			Disposition		Ending Stocks <sup>2</sup>
		Total Production	Imports	Stock Withdrawal <sup>3</sup>	Refinery Inputs	Exports	Products Supplied	
				Thousand Ba	rrels per Day			Million Barrels
1973	AVERAGE	3,693	502	-9	750	166	3,270	208
1974	AVERAGE	3,558	432	-28	665	174	3,123	4 218
1975	AVERAGE	3,424	277	4 -2	537	160	3,002	219
1976	AVERAGE	3,643	206	-5	524	175	3,145	220
1977	AVERAGE	3,912	205	-27	514	165	3,410	230
1978	AVERAGE	4,046	166	14	492	167	3,568	225
1979	AVERAGE	4,153	195	-37	352	209	3,749	238
1980	AVERAGE	3,956	210	-23	311	198	3,634	4 247
1981	AVERAGE	3,739	226	4 46	723	199	3,088	282
1982	January	3,171	269	-7	624	180	2,631	282
	February	3,403	305	-153	663	138	2,755	287
	March	3,466	243	-191	725	161	2,631	293
	April	3,408	309	73	796	204	2,790	290
	May	3,317	318	184	824	210	2,785	285
	June	3,547	315	123	812	216	2,954	281
	July	3,660	408	-1	856	187	3,023	281
	August	3,583	346	217	743	202	3,201	274
	September	3,533	375	105	749	213	3,051	271
	October	3,529	383	244	915	266	2,976	264
	November	3,498	423	-28	837	269	2,786	264
	December	3,324	313	366	885	275	2,842	4 253
	AVERAGE	3,453	334	80	787	211	2,869	200
1983	January	3,194	322	4 -419	588	271	2,239	271
	February	3,229	321	12	673	232	2,658	270
	March	3,381	319	-147	572	249	2,732	275
	April	3,299	404	-24	592	247	2,840	276
	May	3,405	374	35	705	242	2,866	275
	June	3,610	444	96	717	292	3,144	272
	July	3,636	425	148	735	209	3,265	267
	August	3,695	482	30	668	242	3,297	266
	September	3,792	497	-6	788	236	3,255	266
	October	3,578	424	-107	711	195	2,990	270
	November	3,568	441	95	912	238	2,957	267
	December	3,123	479	361	883	257	2,823	4 256
	AVERAGE	3,460	411	6	712	242	2,923	
1984	January	3,391	486	4 -177	561	207	2,931	253
•	February	3,582	586	-256	751	225	2,935	261
	March	3,510	466	-218	530	258	2,969	268
	April	3,584	582	-207	627	268	3,063	274
	May	3,683	642	-118	775	257	3,175	277
	June*	3,863	521	404	1,229	343	3,213	265
	AVERAGE	-,		-97				400
	AVERAGE	3,601	547	-97	743	259	3,048	

Includes pentanes plus, other hydrocarbons and alcohol, unfinished oils, gasoline blending components and all finished petroleum products except finished motor gasoline, distillate fuel oil, residual fuel oil, and liquefied petroleum gases.
 Stocks are totals as of end of period.

Total may not equal sum of components due to independent rounding.

Source: See the last page of this section.

Stocks are totals as or end of period.
 A negative number indicates an increase in stocks and a positive number indicates a decrease.
 In January 1975, 1981, 1983, and 1984, a new stock basis was established affecting stocks reported and stock withdrawal calculations. See Explanatory Note 10.
 See Explanatory Note 9.6.
 Note: Geographic coverage is the 50 United States and the District of Columbia.

# Sources

- 1. 1973 through 1976: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual and PAD Districts Supply/Demand, Annual.
- 2. 1977 through 1980: Energy Information Administration (EIA), Energy Data Reports, Petroleum Statement, Annual and PAD Districts Supply/Demand, Annual, and unleaded gasoline data from Monthly Petroleum Statistics Report.
- 3. January 1981 through December 1983: EIA, Petroleum Supply Annual.
- 4. January 1984 through June 1984: Detailed statistics in appropriate issues of the *Petroleum Supply Monthly.* (See Explanatory Notes 9.1 through 9.6).
- 5. July 1984: Estimates based on EIA weekly data (except domestic crude oil production) (see Explanatory Note 1.1).
- January 1984 through July 1984: Domestic crude oil production estimate based on historical statistics from State Conservation Agencies and the U.S. Geological Survey. (See Explanatory Note 3).



Table 1. U.S. Petroleum Balance, June 1984

	Curren	t Month	Year-to	o-date
	Thousand Barrels	Thousand Barrels per Day	Thousand Barrels	Thousand Barrels per Day
Crude Oil (Including Lease Condensate)				
Field Production				
(1) Alaska		1,792	E 319,458	1,755
(2) Lower 48 States	• •	6,951	E 1,266,490	6,959
(3) Total U.S.	E 262,290	8,743	E 1,585,948	8,714
Net Imports				
(4) Imports (Gross Excluding SPR)		3,101	577,950	3,176
(5) SPR Imports		309	35,207	193
(7) Imports (Net Including SPR)		222	35,993	198
Other Sources	95,646	3,188	577,165	3,171
(8) SPR Withdrawal (+) or Addition (-)	9,257	200	84.848	400
(9) Other Stock Withdrawal (+) or Addition (-)	9,257 6,421	-309	-34,646	-190
(10) Product Supplied and Losses		214 -64	-9,516	-52
(11) Unaccounted for 1		490	-11,730	-64
(12) Total Other Sources		332	76,878	422
(13) Crude Input to Refineries		12,263	20,986	115
(13) = (3) + (7) + (12)	507,501	12,203	2,184,099	12,001
Natural Gas Plant Liquids (NGPL)				
(14) Field Production	48,374	1,612	292,381	1,606
(15) Net Imports 2	863	29	7,044	39
(16) Stock Withdrawal (+) or Addition (-) 2	-476	-16	-1,756	-10
(17) Total NGPL Supply	48,761	1,625	297,669	1,636
Other Liquids				.,
Unlinished Oils and Gasoline Blending Components, Total				
(18) Stock Withdrawal (+) or Addition (-)	12,204	407	-7,712	-42
(19) Imports	9,060	302	58,249	320
(20) Other Hydrocarbons and Alcohol New Supply (Field Production)	1.261	42	8,470	47
(21) Refinery Processing Gain 1	16,010	534	100.405	552
(22) Crude Oil Product Supplied	1,842	61	11,468	63
(23) Total Other Liquids	40,377	1,346	170,880	939
(23) = (18)  through  (22)		•		
(24) Total Production of Products 3	457,039	15,235	2,652,648	14,575
Net Imports of Relined Products 3 (25) Imports (Gross)	40.700	4 500	0.5.000	
(26) Exports		1,560	315,369	1,733
(27) Imports (Net)	19,180	639	93,594	514
(E.) Importo (170) manamananananananananananananananananan	27,619	<del>-</del> 921	221,775	1,219
(28) Total New Supply of Products	484,658	16,155	2,874,423	15,794
(28) = (24) + (27)	·	,		
(29) Relined Products Stock Withdrawal (+) or Addition (-) 3	·	-468	4,555	25
(30) Total Petroleum Products Supplied for Domestic Use	470,605	15,687	2,878,978	15,819
(31) Finished Motor Gasotine	212,767	7,092	1,203,308	6,612
(32) Distillate Fuel Oil	78,069	2,602	545,117	2,995
(33) Residual Fuel Oil	39,712	1,324	276,778	1,521
(34) Liquelied Petroleum Gases		1,394	287,579	1,580
(35) Other 4	96,391	3,213	554,728	3,048
(36) Crude Oil	1,842	61	11,468	63
(37) Total Product Supplied	470,605	15,687	2,878,978	15,819
Ending Stocks, All Oils				
[38] Crude Oil and Lease Condensate (Excluding SPR)	352,692		352 602	
39) Strategic Petroleum Reserve (SPR)	413,735		352,692 412.735	
40) Unlinished Oils	110,781		413,735 110,781	<del></del>
41) Gasoline Blending Components 5	41,951		41,951	
42) Pentanes Plus		***	10,521	
43) Finished Refined Products 3	572,495		572,495	<b></b>
(44) Total Stocks			1,502,175	<del></del>
		- · · · ·	I JOVE I F D	- <del>-</del> -

Note: Total may not equal sum of components due to independent rounding. Sources and estimation procedures: See Explanatory Notes 1, 2 and 9.7.

<sup>A balancing item.

Includes products in the pentanes plus category only.

For products included see Explanatory Note 9.7.

Includes pentanes plus, other liquids, and all finished petroleum products except finished motor gasoline, distillate fuet oil, residual fuel oil and liquefied petroleum gases.

Includes other hydrocarbons and alcohol.

E = Estimated.

Note: Total may not equal sum of components due to independent rounding.</sup> 

Table 2. Supply and Disposition of Crude Oil and Petroleum Products, June 1984 (Thousand Barrels)

			Smoot		-					
								Disposition		
Commodity	Field	Refinent		VIOCK	-Deal			I Onicodeia		
	Produc-	Produc-	Imports	with-	counted	Crude	Befinen	•		
	tion	tion		Addi-	For Crude	Losses	Inputs	Exports	Products Supplied	Ending Stocks
Cardo Oil Garage				tion (-)	5				:	
Cruce On (including lease condensate)	E 262,290	0	102.311	2000						
Natural Gae Finglet and From		ı		-2,030	14,710	67	367,901	6,665	1 842	766 497
Pontance Dive	48,191	12.077	5 670	4					1	176'00'
	8,834			) ()	0	0	13.309	1557	44.044	
Fylan Petroleum Gases	39.357	12.077	7	476	0	0	6.201	22,	44,844	116,729
	14 887		4,7	-5,661	0	0	7 108	7	3,020	10,521
Propane	15,007	7 . 6	1,/61	110	0	· c	3 5	6/0,	41,824	106,208
Normal Butane	104.0	8,604	1,410	-4.476	· C		3 !	157	16,979	21.202
Isobutane	800,0	3,059	348	-523	· c	> <	707	1,010	19,878	55,326
***************************************	3,005	<del>-</del> 18	619	-772	· c	۰ د	3,450	333	5,709	19.703
Other Liquids				)	>	5	3,498	ද	-742	0.077
Other Higher and and and an	1,261	0	9 080	***	,				!	2
Infinited One	1,261	· c	5	12,204	0	0	30,670	<b>C</b>	2770	900
	C		,	3	٥	0	1 100	<b>.</b>	0,143	152,732
Motor Gasoline Blending Components	•	<b>.</b>	0,875	1,440	0	<		•	<b>-</b>	330
Aviation Gasoline Blending Components	> 0	0	2,185	797	c		20,244	0	-8,029	110,781
***************************************	>	0	0	53	· c	•	3,058	0	-116	41.294
Finished Petroleum Brodust-				}	>	>	83	0	· c	700
Finished Motor Contraction	183	415.813	130 61						,	750
Telebra Moldr Gasoline	75	100 500	44,00	-8,391	0	0	c	47.603		
Finished Leaded Motor Gasoline	2 5	02000	8,165	6,519	C	· c		700'11	432,064	466,287
Finished Unleaded Motor Gasofine	9 [	18,84	2,629	4,475	· c		> <	514	212,767	204,173
Finished Aviation Gasoline	75	118,682	5,536	2.044		<b>&gt;</b> (	>	514	86,478	96.676
Naphtha-Type Jet Firet	0	666	234	<i>Y</i>	<b>o</b> c	۰ د	0	0	126,289	107.497
Kerosene-Type Jet Fuel	0	6,272	485	338	<b>&gt;</b> (	0	0	0	1.170	925
Kerosene	٥	27,340	843	1 664	<b>-</b>	0	0	81	6.348	200.9
Distillate Engl Oil	0	2.863	27.0		5	0	0	191	26.220	0000
Booking Carl On	49	86.343	700.	C/7-	0	0	C	. "	2000	35,000
Markt	C	25,25	000,	-14,710	0	0	· c	0 00	4,835	/88/
Naphtha < 400 Deg. for Petro. Feed. Use	· c	422,624	20,283	-520	0	0	o c	900.	78,069	112,868
Orner Oils > 400 Deg. for Petro. Feed. Use	o c	0 (0	1,044	-203	0	· c		0,70	39,712	46,811
Special Naphthas	•	0000	0	212	a		<b>5</b> C	717	5,008	1,942
Lubricants	<b>5</b> 6	1,694	1,606	-180	. c	o c	<b>5</b> (	841	7,727	1.962
Waxes	<b>o</b>	4,895	374	-127	۰ د	5 6	5	291	2,829	3.023
Petroleum Coke	0	471	41	27		0	0	476	4.666	11.058
Asobalt and Boar Oil	0	13,671	<	5,0	> 0	0	0	37	438	203
Still Gas	0	15,024	1 0	2,45	<b>-</b>	0	0	8.062	5 053	200
Microllanosis De J	0	18.010	2 0	7,7	0	0	0	4	17.044	4,000
SIGNATURE STORAGE STOR	88	1 750	<b>.</b>	<b>-</b> ;	0	٥	0		† O C C	53,901
T-0-1	}	3	919	-72	0	0	· c	۶ د	0.030	0
(012)	311,925	427 000	1			•	•	Ş	2,340	2,247
	2-1-1-1	161,030	LL1,861	-5,160	14,710	29	411.880	25 004		
Unaccounted for crude oil is a balancing item.								+7547	4/0,505	1,502,175

(s) = Less than 500 barrels.
E = Estimated.
Note: Total may not equal sum of components due to independent rounding.
Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 3. Year-to-Date Supply and Disposition of Crude Oil and Petroleum Products, January - June 1984 (Thousand Barrels)

			Supply					Disposition		
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal (+) or Addi- tion (-)	Unac- counted For Crude	Crude	Refinery	Exports	Products Supplied	Ending Stocks
Crude Oil (including lease condensate)	E 1,585,948	0	613,157	-44,162	76,878	262	2,184,099	35,993	11,468	766,427
Natural Gas Liquids and LRGs	291,281	67,511	46,160	-207	-	-	86.409	9,046	000 000	
Pentanes Plus	51,920	0	7,537	-1,756	0	· c	35,466	200	303,020	67/01
Liquefied Petroleum Gases	239,361	67,511	38,623	1,549	0	0	50,943	8.523	287.579	106.208
Ethane	90,988	4,173	16,038	177	0	0	389	986	110,001	21,202
Moses Dutan	94,246	50,560	12,045	9	0	0	727	4,876	151,202	55,326
lookutsoo	36,439	12,889	6,380	686	0	0	28,598	2,168	25.628	19,703
Sobularie	17,688	-111	4,161	732	0	0	21,229	493	749	6,977
Cther Liquids	8,470	0	58,249	-7,712	0	c	99.836	c	-40 820	169 733
Other Hydrocarbons and Alcohol	8,470	0	0	4	0	0	8.425	, c	2,00	330
Unfinished Oils	o	0	45.052	-3.283	C	· c	72 603	• •	2000	330
Motor Gasoline Blending Components	0	0	13,197	4,374	0	0	18.728	0	-0.00	10,781
Aviation Gasoline Blending Components	0	0	0	-10	0	0	-10	0	0	327
Finished Betrolaum Droducte	7	000000			,	,				
Chicked Makes Constitut	1,100	2,403,238	276,746	3,006	0		0	85,072	2,599,018	466.287
ruisiled Motor Gasoline	493	1,168,156	54,228	-18,678	0	0	0	891	1,203,308	204 173
Finished Leaded Motor Gasoline	325	482,163	26,772	-2,592	0	0	0	891	505,778	96.676
Finished Unleaded Motor Gasoline	168	685,993	27,455	-16,086	0	0	0	0	697,530	107.497
Finished Aviation Gasoline	0	4,397	279	-67	0	0	0	0	4.609	2.358
Naphria-Type Jet Fuel	0	36,406	3,536	-693	0	0	0	175	39.074	908
Kerosene-Type Jet Fuel	0	162,282	8,839	-3,632	0	0	0	769	166,719	36,000
Nerosene	ဖ	20,071	1,458	-27	0	0	0	17	21.491	7 887
Decided First Oil	238	478,247	47,631	27,534	0	0	0	8.533	545,117	112,868
Northbo / 600 Doc 600 Dotto Total 11.	0 (	162,219	141,175	2,297	0	0	0	28.913	276,778	46.811
Other Oils is 100 Bit is a second of the control of	0	24,607	5,079	0EZ-	0	0	0	1,292	28,165	1.942
Cariet Uils > 400 Deg. 10r Petro. Feed. Use	0	49,329	0	-205	0	0	0	3,022	46,102	1.962
Special Naphunas	-20	10,132	9,401	130	a	0	0	546	19,067	3.023
LUDIII CALIES	<b>.</b>	29,002	1,922	1,017	0	0	0	3,092	28.849	11,058
Downlove California	0	2,622	260	184	0	0	0	230	2,835	593
	0	81,894	0	923	0	0	0	37,362	45,455	4.558
Asphait and Hoad Oil	0	59,388	249	-5,109	0	0	0	20	54,478	23.901
Minorhanner Part Lake	0	102,909	0	0	0	0	0	0	102,909	0
Miscenarieous Products	413	11,577	2,689	438	0	0	0	180	14,061	2,247
Total	1,886,799	2,470,749	994,312	-49,075	76,878	262	2,370,344	130.080	2.878.978	1.502.175
1   Insertation for chief of the characteristics										2016

Unaccounted for crude oil is a balancing item.
 (s) = Less than 500 barrels.
 E = Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 4. Daily Average Supply and Disposition of Crude Oil and Petroleum Products, June 1984 (Thousand Barrels per Day)

			Supply				Disposition	cition	
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal (+) or Addi- tion (-)	Unac- counted For Crude	Crude	Refinery Inputs	Exports	Products Supplied
Crude Oil (including tease condensate)	E 8,743	0	3,410	-95	490	2	12,263	222	.6
Natural Gas Liquids and LRGs	1.606	403	189	-205	c	ć		1	;
Pentanes Plus	294	c	3 8	507	<b>.</b>	<b>&gt;</b> c	444	å,	1,495
Liquefied Petroleum Gases	1.312	403	158	200	•	<b>-</b>	207	က (	101
Ethane	496	7	65	5	<b>-</b>	- 0	Š	en r	1,394
Propane	515	287	47	-149	o c	o c	N 4	n 7	200
Normal Butane	200	102	35	-17	c	· C	1, 1,	# <del>-</del>	500
Isobutane	100 0	٦	21	-26	0	0	117	- m	25.
Other I terride	:	•						)	}
Other Challes are a second and	42	D	302	407	0	0	1,022	0	-272
Outer rydrocarbons and Aiconol	42	0	0	42	0	0	40	0	i
	0	0	523	381	0	0	878	٥	-268
Motor Lasoline Blending Components	0	0	22	92	0	0	102	0	3 7
Aviation Gasoline Blending Components	0	0	0	63	0	0	8	0	0
Finished Petroleum Products	u	13 860	,	Č	•	•	•		
Enished Motor Coopling	> <	0000	704.	097-	9	5	0	587	14,402
The state of the s	'n	6,617	2/2	217	0	0	0	17	7,092
rinished Leaded Motor Gasoline	0	2,661	88	149	٥	0	0	17	2 883
Finished Unleaded Motor Gasoline	-	3,956	185	99	0	٥	0	. 0	4 210
Finished Aviation Gasoline	0	ဗ္ဗ	80	7	0	0	0	0	DE.
Naphtha-Type Jet Fuel	0	508	16	7	0	0		e er	212
Kerosene-Type Jet Fuel	0	911	58	-55	0	0	0	ω (α	878
Kerosene	0	92	6	o P	0	0	0	(S)	
Distillate Fuel Oil	-	2,878	266	490	0	0	0	53	2.602
Residual Fuel Oil	0	841	929	-17	0	0	0	176	1324
Naphtha < 400 Deg. for Petro. Feed. Use	0	146	35	<b>-</b> -	0	0	0		167
Other Oils > 400 Deg. for Petro. Feed. Use	0	279	0	7	0	0	O	· 62	25.0
Special Naphthas	0	26	<b>2</b> 2	φ	0	0		2 €	76
Lubricants	0	163	12	4	0	0	0	<u> </u>	156
Waxes	0	16	-	ï	0	C		?	5 -
Petroleum Coke	0	456	0		0	0	· C	269	108
Asphalt and Road Oil	0	501	4	06	0	0	Φ	(s)	595
Still Gas	0	900	0	0	0	0	C		909
Miscellaneous Products	63	58	21	-5	0	0	0	-	78
Total	10.398	14 263	5 304	-172	400	r	12 720	7.00	400
				:	?	4	10,145	100	15,087

Unaccounted for crude oil is a balancing item.
 = Less than 500 barrels.
 = Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 5. Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January - June 1984 (Thousand Barrels per Day)

			Supply				Disposition	sition	
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal (+) or Addi- tion (-)	Unac- counted For Crude Oil1	Crude	Refinery	Exports	Products Supplied
Crude Oil (including lease condensate)	E 8,714	0	3,369	-243	422	-	12,001	198	63
Natural Gas Liquids and LRGs	1,600	371	254	7	0	0	475	20	1,700
Pentanes Plus	285	0	41	-10	0	0	195	ო	119
Liquefied Petroleum Gases	1,315	371	212	o ,	0 (	0 (	280	47	1,580
Propane	518	278	8 6	- (S)	<b>-</b> -	<b>-</b>	NA	5 76	604 408
Normal Butane	200	} ~	32	5	0	0	157	12	141
Isobutane	26	٢	23	4	0	0	117	i w	4
Other Liquids	47	0	320	-42	G	C	549	c	700-
Other Hydrocarbons and Alcohol	47	0	0	(s)	0	0	46	0	0
Unfinished Oils	0	0	248	-18	0	0	333	0	-170
Motor Gasoline Blending Components	0	0	73	-24	0	0	103	0	-54
Aviation Gasoline Blending Components	0	0	0	(s)	0	0	<u>s</u>	0	0
Finished Petroleum Products	9	13,205	1,521	17	0	0	0	467	14,280
Finished Motor Gasoline	ო	6,418	298	-103	0	0	0	Ŋ	6,612
Finished Leaded Motor Gasoline	<b>7</b>	2,649	147	-14	0	0	0	ιO	2,779
Finished Unleaded Motor Gasoline	<del>y</del> (	3,769	151	<b>8</b> 4	0	0	0	0	3,833
Finished Aviation Gasoline	0 0	5 5 5 5	N S	6	0 (	0 (	G (	0	; S2
Naphtha-Type Jet Fuel	<b>-</b>	200	5	4 8	٥	00	00	- <	215
Kerosene	(8)	110	} α	3	o c	o c	o c	ૄ	9 5
Distillate Fuel Oil	-	2,628	262	151	0	0	0	74	2.995
Residual Fuel Oil	0	891	2776	13	0	D	0	159	1,521
Naphtha < 400 Deg. for Petro. Feed. Use	0	135	28	٦	0	0	0	7	155
Other Oils > 400 Deg. for Petro. Feed. Use	0	271	0	٦	0	0	0	17	253
Special Naphthas	(s)	26	52	-	0	٥	0	e	105
Lubricants	0	159	Ξ.	φ.	0	0	0	17	159
Waxes	0	4	<b>**</b>	<b>-</b>	0	0	0		16
Petroleum Coke	0 (	450	o ,	ın (	0 (	0 (	۰ ۵	202	250
Aspnal and Hoad Oil	<b>ə</b> 6	אלא מאלי	- (	87 °	0 0	<b>-</b>	<b>5</b> (	(S)	562
Miscellaneous Products	<i>y</i> 0 C	Ç 2	13.0	P 9	00	00	00	o <del>-</del>	595 77
	10.067	70 67	7 463	040	7	•	,000	1	
1 0 kgl ***********************************	100,01	976,61	3,403	0.42-	774	•	13,024	617	9,019

Unaccounted for crude oil is a balancing item.
 = Less than 500 barrels.
 E = Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 6. PAD District I, Supply and Disposition of Crude Oil and Petroleum Products, June 1984 (Thousand Barrels)

			Supply	λjα	!			Disp	Disposition		
Commodity	Field Produc- tion	Refinery Produc- tion	imports	Stock With- drawal (+) or Addi- tion (-)	Unac- counted For Crude	Net Receipts	Crude	Refinery Inputs	Exports	Products Supplied	Ending Stocks
Crude Oil (including lease condensate)	E 1,854	o	26,167	887	3,365	3,123	-	35,395	o	0	15,055
Natural Gas Liquids and LRGs Liquefied Petroleum Gases Pentanes Plus	870 777 93	1,238 1,238 0	1,403 610 794	-347 -343 -4	000	1,487 1,487 0	000	204 166 38	<b>5</b> 1 0	4,432 3,587 845	3,359 3,304 55
Other Liquids	65	0	3,210	311	0	167	0	4,314	0	-561	20,600
Other Hydrocarbons and Alcohol	65	0	0	-57	0 1	0	0 (	80 9	0 (	0	92
Untimished Oils	0	0	1,814	1,010	0	130	0	4,509	>	-1,555	14,951
Motor Gasoline Blending Components	0	0	1,395	-631	Φ	37	0	-192	0	993	5,536
Aviation Gasoline Blending Components	0	0	0	-11	0	0	0		0	0	Ę
Finished Petroleum Products	65	40,424	35,493	-4,210	0	65,407	0	0	512	136,667	150,042
Finished Motor Gasoline	65	17,604	6,876	2,411	0	41,172	0	0	28	68,070	63,798
Finished Leaded Motor Gasoline		5,254	2,147	905	0	14,089	0	0	28	22,372	29,197
Finished Unleaded Motor Gasoline	27	12,350	4,730	1,509	D	27,083	0	0	0	45,699	34,601
Finished Aviation Gasoline		₽	234	-73	0	259	0	0	0	430	483
Naphtha-Type Jet Fuel		891	447	51	0	62	0	o	0	1,468	878
Kerosene-Type Jet Fuel		1,154	753	-799	0	8,491	0	0	0	9,599	000'6
Kerosene		128	273	-296	0	226	0	0	4	327	3,468
Distillate Fuel Oil		9,385	7,322	-7,412	0	12,417	0	0	8	21,710	39,943
Residual Fuel Oil		3,346	18,223	1,181	0	1,675	0	0	0	24.425	21,913
Naphtha and Other Oils for Petro. Feed		322	7	7	0	ሞ	0	0	49	270	275
Special Naphthas	0	4	415	-21	0	147	0	٥	9	575	743
Lubricants	0	654	237	34	0	529	o	0	152	1,233	3,011
Waxes		8	8	9	0	9	0	0	4	122	91
Petroleum Coke		1,215	0	o	0	0	0	0	221	1,003	536
Asphalt and Road Oil	0	3,494	91	710	0	179	0	0	N	4,472	5,556
Still Gas	0	1.802	0	0	0	0	0	0	0	1,802	0
Miscellaneous Products		298	586	59	0	231	0	0	4	1,160	347
Total	2,854	41,662	66,273	-3,359	3,365	70,184	-	39,913	527	140,538	189,056

Unaccounted for crude oil is a balancing item.
 = Less than 500 barrels.
 E = Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 7. PAD District II, Supply and Disposition of Crude Oil and Petroleum Products, June 1984 (Thousand Barrels)

ile,

			1								
			Sug	Supply				Dispo	Disposition		
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal (+) or Addi- tion (-)	Unac- counted For Crude Oil1	Net Receipts	Crude Losses	Refinery	Exports	Products Supplied	Ending Stocks
Crude Oil (including lease condensate)	E 31,293	0	14,073	1,463	40,517	2,312	=	89,218	428	0	77,934
Natural Gas Liquids and LRGs	9,877	2,347	3,160	-1,506	00	1,379	00	4,229	525	10,503	36,100
Pentanes Plus	1,380	0	5	-106	0	26	00	1,327	79	0,540 -38	32,264 3,836
Other Liquids	349	0	214	319	0	-804	0	1,115	0	-1,037	24.793
Other Hydrocarbons and Alcohol	349	0	0	φ	0	0	0	341	0	0	137
Unithished Oils	0 (	0 0	214	-219	0	-804	0	ន	0	-832	17,325
Aviation Gasoline Blending Components	<b>5</b> C	o	o c	545 4	0 0	00	<b>O</b> C	747	0 0	-205	7,175
	,	>		,	•	•	•	‡	>	>	90
Finished Petroleum Products	9	95,886	904	-231	0	23,619	0	0	544	119,652	119,539
Finished Motor Gasoline	0	52,962	8	2,282	0	14,345	0	0	0	69,671	58,308
Finished Leaded Motor Gasoline	0	23,127	45	1,490	0	7,161	0	0	0	31,823	29,154
Finished Unleaded Motor Gasoline	0	29,835	37	792	0	7,184	0	o	0	37,848	29,154
Finished Aviation Gasoline	0	97	0		0	166	0	0	0	252	532
Naphtha-lype Jet Fuel	0	830	0	-35	0	51	0	0	0	849	1,547
Kerosene-Type Jet Fuel	0	4,008	0	179	0	647	0	0	0	4,834	7,847
Kerosene	0	295	0	357	0	ო	0	0	0	655	1,613
Distilate Fuel Oil	0	22,169	438	4,677	0	7,728	0	0	0	25,658	31,744
Hesiqual Fuel Oil	٥	1,535	33	364	0	89	0	0	0	1,964	3,579
Naphtha and Other Oils for Petro. Feed.	0	873	4	<b>8</b> 7	0	36	0	0	20	840	192
special Naphthas	0	470	139	4	0	120	0	0	ო	783	507
Lubricants	0	965	4	-215	0	417	0	0	33	820	2,088
Waxes	0	ဓ	S	ቀ	0	0	0	0	(s)	58	25
Petroleum Coke	0	3,308	0	84	0	0	0	0	457	2,935	1,086
Asphalt and Road Oil	0	4,558	0	1,370	0	393	0	0	-	6,320	10,205
Still Gas	0	3,820	0	0	0	0	0	0	0	3,820	0
Miscellaneous Products	<u>ნ</u>	506	ଯ	104	0	-219	0	0	63	196	234
Total	41,538	98,233	18,350	45	40,517	26,506	Ξ	94,562	1,497	129,118	258,366

Unaccounted for crude oil is a balancing item.
 = Less than 500 barrels.
 E = Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 8. PAD District III, Supply and Disposition of Crude Oil and Petroleum Products, June 1984 (Thousand Barrels)

			Ü	Simuly							
Соттоску	Field Produc- tion	Refinery Produc- tion	Imports		Unac- counted For Crude	Net Receipts	Crude	Dispo Befinery Inputs	Disposition  riy Exports	Products Supplied	Ending Stocks
				tion (-)	5						
Crude Oil (including lease condensate)	E 124,899	0	52,794	-7,152	-19,510	10,256	25	161.239	c	3	570 440
Natural Gas Liquids and LRGs	33.854	7 147	707	,	,				)	?	6
Liquefied Petroleum Gases	27,742	7,147	366	-3.742	<b>-</b>	-1,286	0	7,565	931	27,500	74,253
Pentanes Plus	6,112	0	32	-378	0	139	- 0	3.081 4,484	931	26,076	67.926
Other Liquids	584	•	1 0 5 4	7	•	!			•	:	100
Other Hydrocarbons and Alcohol	584	o c	- C	10,137	0 (	-207	0	21,684	0	-6,319	67,393
Unfinished Oils			7 000	7 000	> 0	۽ ح	0	286	0	0	66
Motor Gasoline Blending Components		0 0	1,035 a1	9,000	<b>-</b>	0. -1	0	18,836	0	-4,537	49,462
Aviation Gasoline Blending Components	c	o c	<u>o</u> c	5	<b>5</b> (	-37	0	2,214	0	-1,782	17,683
	•	•	>	φ 20	0	0	0	48	0	0	149
Finished Petroleum Products	93	190,472	3,780	-3,992	0	-91.573	c	•	1 202		
Figure 1 and	σο	88,566	44	1,558	0	-57.134	· c	0 0	502,1	770'18	124,163
Finished Palended Mater Caraman	<b>00</b>	34,310	214	1,372	0	-21.978	0 0	<b>.</b>	97	49,504	782,287
Finished Ariefton Condition	0	54,256	227	186	0	-35,156	· c	0 0	2 <	13,63	23.940
Naphtha-Tope let Etal	0	459	0	92	0	-447	0	•	•	19,515	715
Kerosene-Two let Firet	0 (	2.725	59	-118	0	-236	0		۶,	2 3 10	0 7 2 2 4
Kerosene	۰ د	13,593	0	-1,137	0	-9,784	0	· ~	155	2,512	10,201
Distillate Fuel Oil	0 9	2,265	ο.	-336	0	-229	0	0	? -	1.699	2524
Residual Fuel Oil	<del>.</del>	38,787	٠,	-2,445	0	-20,364	0	0	472	15.547	26.077
Naphtha and Other Oils for Petro, Feed.	o c	11 100	200	367.7	٥	-1,607	0	0	1,106	7,561	11,214
Special Naphthas	0	1.063	22,	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<b>-</b>	8 F.S	0 (	0	854	10,944	3,225
Lubricants	a	3 213	. a	2	<b>&gt;</b> c	707	<b>-</b> (	5	30	1,320	1,549
Waxes	0	279	e c	8 8	0 0	5	٥ (	0	216	2,225	4,625
Petroleum Coke	0	5.502	, c	25	<b>-</b>	01-	0 (	0	8	217	391
Asphalt and Road Oil	0	3,839	,	1.02		ָ בַּ	0 (	0	4,170	1,280	1,229
Still Gas	0	8 020	4 <	3	> 0	7/0-	<b>-</b>	0	(s)	3,415	3,278
Miscellaneous Products	45	1 010	· -		<b>-</b>	<u>-</u> ک	0 (	0	0	8,020	Q
	?	2	-	7	Þ	23	0	0	4	1,043	1,118
i otal	159,430	197,619	61,826	-5,127	-19,510	-82,810	25	190,488	8.134	112.781	844 258
1 Unaccounted for crude oil is a balancing item											

Unaccounted for crude oil is a balancing item.

(s) = Less than 500 barrels.

E = Estimated.

Note: Total may not equal sum of components due to independent rounding.

Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 9. PAD District IV, Supply and Disposition of Crude Oil and Petroleum Products, June 1984 (Thousand Barrels)

			Ŝ	Supply				1	Disposition		
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal (+) or Addi- tion (-)	Unac- counted For Crude	Net Receipts	Crude Losses	Refinery Inputs	Exports	Products Supplied	Ending Stocks
Crude Oil (including lease condensate)	. E 17,001	o	944	525	-4,792	0	-	13,671	0	9	13,459
Natural Gas Liquids and LRGs	2 599	106	334	16	c	,	•	!	,		
Liquefied Petroleum Gases	1,784	90	208	3 6	<b>-</b>	1,580	<b>P</b> C	435	0	1,048	1,183
Pentanes Plus		0	112	, m	0	-233	00	322 113	00	463 584	931 252
Other Liquids	0	Ċ	•	186	c	•	c	ç	•	;	
Other Hydrocarbons and Alcohol		· c	· c	2	9 6	•	<b>&gt;</b> (	71-	<b>5</b> (	198	5,068
Unfinished Oils		0	0 0	9 0	<b>-</b>	<b>5</b> C	<b>-</b>	<b>5</b>	0 0	0 0	0
Motor Gasoline Blending Components	0	0	0	177	-	•	<b>&gt;</b> C	1.83	<b>&gt;</b> c	SQ5	2,719
Aviation Gasoline Blending Components	0	0	0	0	0	0	0	0	00	† C	6,349 C
Finished Petroleum Products	v.	14 301	447	101	•	000		•	• (		•
Finished Motor Gasoline		7 202	,	5,6	•	900	<b>5</b> (	<b>-</b>	m +	15,156	13,568
Finished Leaded Motor Gasolina		202,	, u	2 5	<b>-</b> (	791-	<b>5</b> (	0	0	7,910	5,592
Finished Unfeaded Motor Gasoline		900 6	g e	202	۰ د	407	<b>5</b> (	Φ,	0	4.481	3,595
Finished Aviation Gasoline		066,3	v C	35	0 0	33.5	0	0 0	0 (	3,429	1,997
Naphtha-Type Jet Fuel		443	0 0	A 4.	o c	7 5	0	<b>-</b>	0 0	20	26
Kerosene-Type Jet Fuel		758	0	45	o c	1 30	<b>-</b>	<b>&gt;</b> c	<b>-</b> c	268	333
Kerosene	0	0	0	2	0	3 -	0	0 0	<b>-</b>		788
Distillate Fuel Oil	0	3,877	26	-50	0	-391	0	0	0	3 533	3.463
Hesidual Fuel Oil	0	230	8	41	0	0	0	0	0	273	510
Sacret Market Oils for Petro, Feed.	0	0		0	0	0	٥	0	,-	; <del>'</del>	) )
Special Naphinas	٥	ო	<u>(s)</u>	ĩ	0	0	0	0	0	~ ~	o po
William William	0	35	(s)	8	0	0	0	0	-	8	22
Dotalo. — Cala	0	# #	0	0	0	0	0	0	0	Ξ	0
Acetal Coke	0	528	0	မှ	0	0	0	0	0	252	174
Asplian and Hoad Oil	ο .	829	0	281	0	0	0	0	-	1,139	2.521
Missell GES	0	487	0	0	0	0	0	0	0	487	0
Miscellaneous Products	4	3	(8)	S	0	0	0	0	(s)	4	01
Total	19,606	14,407	1,411	1,759	-4,792	-1,886	-	14,094	ო	16.408	33.278
					1						

Unaccounted for crude oil is a balancing item.
 = Less than 500 barrels.
 = Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 10. PAD District V, Supply and Disposition of Crude Oil and Petroleum Products, June 1984 (Thousand Barrels)

			Aiddne					Oisp	Disposition		
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	With- drawal (+) or Addi- tion (-)	Unac- counted For Crude Oil1	Net Receipts	Crude	Refinery Inputs	Exports	Products Supplied	Ending Stocks
Crude Oil (including lease condensate)	E 87,243	٥	8,334	1,441	-4,870	-15,691	29	68,378	6,237	1,813	81,530
Natural Gas Liquids and LRGs		1,239	394	-201	6	c	c	928	107		
Iquened Petroleum Gases	434	1,239 0	394 0	-210 9	00	00	00	637	186 0	1,158	1,783
Other Liviide	i c	(						}	o	5	5
Other Hydrocarbons and Alcohol	. Z63	<b>o</b> c	786	1,251	0	844	0	3,569	o	-425	34,878
Unfinished Oils		o c	, ħ	- 50	<b>-</b>	0 ;	φ.	264	0	0	2
Components		0	777	228	<b>-</b>	844	0 0	3,169	00	-1,306	26,314
Aviation Gasoline Blending Components		0	0	18	0	0	00	18	0	- G	8,55 11
Finished Petroleum Products	0	74.730	1,738	9961	c	6306	c				
Finished Motor Gasoline	0	32 099	718	198	•	2,035	<b>5</b> 6	> 0	9,340	59,012	58,975
Finished Leaded Motor Gasoline		12.854	177	500	o c		<b>-</b>	0 0	381	33,752	23,188
Finished Unleaded Motor Gasoline		19 245	541	-220	o c	205	<b>-</b>	<b>-</b>	381	13,952	10,784
Finished Aviation Gasoline	0	413	0	82	0 0	200	> <	<b>-</b>	<b>o</b> c	19,801	12,404
Naphtha-Type Jet Fuel		1,383	ω	-184	0	986	<b>.</b>	0 0	<b>-</b>	331	5/2
Kerosene-Type Jet Fuel	0	7.827	90	51	0	293	0	0 0	9 9	8 225 R	7.99.7
Kerosene		175	0	?	0	0	0	• =	(5)	173	2000
Distribute Fuel Oil		12,125	126	-126	0	610	0	0	1.114	11.621	11 641
Manthe and Other Other Commencers	0	10,161	445	-948	0	0	0	0	4.169	5.489	9.595
Second Manual and Other Oils for Petro, Feed.	0	340	0	440	0	0	0	0	86	682	500
Special Naphrilas	0	118	271	8	0	0	0	0	243	148	215
With the second	0	331	75	24	0	<u>۾</u>	0	0	2/2	324	1 262
Waxes	0	2	က	မှ	0	0	0	0	4	8	1 4
Petroleum Coke	0	3,388	0	308	0	0	0	· C	3 214	483	1 533
Asphalt and Hoad Oil	0	2,274	0	224	0	0	0	0	: (S)	204	2341
Still Gas	0	3,881	0	0	0	0		· c	C	2 B81	,
Miscellaneous Products	0	145	-	-209	0	क्ष	0	0	ო	66-	238
Total	88 497	75 959	44.054	c c	,						
		222624	1 1.1	1,364	-4,670	-11,994	R	72,823	15,763	71,761	177,217

Unaccounted for crude oil is a balancing item.
 (s) = Less than 500 barrels.
 E = Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 11. Production of Crude Oil (including Lease Condensate) by PAD District and State, for the Most Currently Available Month, 1 April 1984 (Thousand Barrels)

Table 11. Production of Crude Oil (including Lease Condensate) by PAD District and State, for the Most Currently Available Month, April 1984
—Continued

	Prod	Production		7	
PAD District and State		Daily	DAN District and State	Prod	Production
	Total	Average	טמובי מיוס סומוב	Total	Daily
					a Rosa
New York	5.5	4.	PAD District IV		
Pennsylvania	L 63	א ני ט ט	Colorado	E 2,358	E 79
Virginia	- CO II	2 0	Montana	E 2,304	E 77
West Virginia	22.5	3;	Utan	E 2,640	E 38
:	350	= 1	WYYORING	E 9,798	E 327
Total PAD Dietrict I	17.0	æ. '	Adjustment 2	-72	7-
	1,94/	8 u	Iotal PAD District IV	E 17,028	E 568
PAD District II					
Ilinois	9000	ş	FAD District V		
101701	2,326	20	Alaska		
1100010 pt 1000010 pt 10000010 pt 1000010 pt 1000010 pt 1000010 pt 1000010 pt 1000010 pt 10000010 pt 10000010 pt 10000010 pt 1000000 pt 1000000 pt 1000000	816	17	South Alaska	1,939	r.e
Kansas	6,365	212	North Slope	51 150	± 70°
Kentucky	623	7	Admetment for Alaska2	200	507.3
Michigan	2 699	i 8	Total Alacka	0,011	45
	У т.	3 4	Arizana	51,/41	1.725
Nehracka	2 6	- #	AILONG	95	-
North Doboto	OOC .	-	Сайгота		
NOTE DANGE AMERICAN AND AND AND AND AND AND AND AND AND A	4,261	142	Central Coastal	6.164	205
0,000	E 1,197	E 40	East Central	20.850	, P
Oklahoma	14,307	477	North	97	? •
South Dakota	102		South	0 000	- 0
Tennessee	52		Total California	970'0	278
2	0 0	7 7		33,568	1.119
Total D&O Distance II	510'I-	ና :	Nevada	103	ო
I DISITION IN THE PROPERTY OF	E 31,173	E 1,039	ornia, and Nevada	-216	-7
			Total PAD District V	85,215	2.841
Madama	1,533	ភ	United States Total	E 260 643	E 8 689
Arkansas	E 1,509	F 50		)	
Louisiana			1 Includes the following offshore production (thousand tografe)	(a)	
Gulf Coast	38.298	1.977	Alacka: Chate - 1 201:	ź	
	2 671	62	Colfornia Extern 2400 Cent 0424		
	10,5	000	California: rederal - 2,493, State - 3,174;		
Monotoniani	40,969	1,366	Louisiana: Federal - 25,494, State - 2,222;		
WitselsSippi	2,653	88	Texas: Federal - 1,757, State- 159;		
New Mexico			U.S. Total - 37.000		
Northwestern	543	18	2 These adjustments are used to recopcile the patienal and DADD	0000	
Southeastern	5.845	195	level sums of the State data with the anderendanty estimated	100	
Total New Mexico	5 388	0.50		100	
Texas	2000	512	U.S. and Alaskal ligures shown in the Summary Statistics portion	portion	
Dietrict 01			of this issue and with the PAUD level figures published in a	æ	
	2,148	72	previous issue. Final data at the State. PAD District and		
TOO CONTRACTOR OF THE PROPERTY	3,221	107	national levels will be published without adjustments in the	a.	
בייייייייייייייייייייייייייייייייייייי	10,333	344	Petroleum Supply Annual,		
I HRC District 04	2,444	9	Note: Total may not equal sum of components due to independent rounding	ndent rounding	
TRRC District 05	670	22	Source: See Explanatory Notes on Data Collection and Estimation	nation	
excluding East Text	3.506	117	- Data not aurilable		
TRRC District 078	03000	5	n Dala ilut available.		
TRBC District 07C	2000	n c	F = CSUMATED.		
	1000	ò s			
TRBC District OBA	2000	<b>1</b> 6			
TRAC District Co	076'/	ממ כ			
	3,318	E -			
THE DISURE TO THE PROPERTY OF	026'L	Z			
Table Table	4,084	136			
lotal texas	74,513	2,484			
Aglustment 2	-2,285	-76			
Iotal PAD District III	E 125,280	E 4,176			
	•				

See footnotes at end of table.

Table 12. Natural Gas Processing Plant Production of Petroleum Products by PAD District,<sup>1</sup> June 1984 (Thousand Barrels)

	PAD	D District	_		ď	PAD Dietrical	_				6			ŀ	ŀ		
Commodity	East	Appala-	I —	Appala-	Ē	Minn.	Okla.		Towar	Texas	La.	inct iii	;	Ī		PAD >	laited.
	Coast	#1 #1	1 012		 Ky.	Wisc., Daks.	Kans. Mo.	Total	Inland	Coast	Gulf	Ark.	Mexico	Total	Rocky Mt	West	States
Natural Gas Liquids	356	514	870	'n	1,645	476	7,753	9,877	19,323	2.991	7.012	ă	2.0	20 00		8	
Fendanes Flus	8 %	ន វ	93	<b></b> (	225	124	1,030	1,380	3,635	255	1,286	177	759	6,112	2,339 815	434	48,191 8.834
Ethane	96	149	245	V 0	581	χ γ γ 4	5,723 2,977	3,562	15,688	2,736	5,726	411	3,181	27,742	1,784	557	39,357
Propane	138 5	194 24	332	<del>-</del> -	503	203	2,498	3,205	5,964	1,175	1,976	3 E	1,300	10,588	1.000	332	14,887
Isobutane	28	S 9	49	- 0	152	119 26	812 436	1,116 614	2,554 998	216 252	659 575	55 53	284 284	4,133	450	158	6,008
Finished Petroleum Products	89	0	65	0	-	0	8	19	27	49	~	α	,	8	. 4	5	
Finished Leaded Motor Gasoline	8 8	00		o c	0 6	00	00	00	ဖ	0	0	0	. 2	ဒ္က ထာ	0 03	00	3 15
Finished Unleaded Motor Gasoline	27	0	27	0	0	0	0	0	ه ۵	<b>-</b> 0	00	• •	N C	<b>ω</b> ς	0 C	00	3 49
Naphtha-Type Jet Fuel	<b>-</b>	o c	0 0	0 0	00	0 0	0 (	0	0	0	0	0	0	0	0	0	ò
Kerosene-Type Jet Fuel	0	0	0	0	0	0	<b>-</b> 0	<b>-</b> 0	00	0 0	00	0	00	0	0 (	0	0
Nerosene Distillate Firel Oit	0 (	٥ (	0	0	0	0	0	0	0	0	0		<b>-</b> C	<b>-</b> ¢	<b>-</b> -	00	0 0
Special Naphthas	<b>&gt;</b> c	0 0	0	0 0	0 (	0	0	0	0	40	0	0	0	\$	٥ د	0	o 6
Miscellaneous Products	<b>&gt;</b> c	<b>&gt;</b> C	> c	<b>&gt;</b> c	۰ د	0	0 ;	0	0	0	0	0	0	0	0	0	0
	•	•	•	>	-	>	20	19	7	6	Ø	80	S	45	4	0	68
Total Production	451	514	335	e	1,646	476	7,771	9886	19.350	3.040	7 014	202	. 640	00000	0		1
										)		000		\+n.	2.603	200	40.074

1 Production represents quantity of natural gas processing plant output less input to fractionating facilities. Source: See Explanatory Notes on Data Collection and Estimation.

Table 13. Refinery Input of Crude Oil and Petroleum Products by PAD District, June 1984 (Thousand Barrels, Except Where Noted)

	P/	PAD Distric			P/	PAD District II	=				PAN District II	triot III			CVO	GAG	
Commodity	East Coast	Appala- chian #1	Total	Appala- chian #2	ind. Ky.	Minn., Wisc., Daks.	Okla., Kans., Mo.	Total	Texas	Texas Gulf	Ger F	No. La.,	New Mexico	Total	Pocky	Dist. V	United
Crude Oil (including lease condensate) 33,010	33,010	2,385	35,395	1,745	59.495	8.682	19.296	89.218	16.025	78.916	58 399	7 563	2 336	161 220	12 674	50 970	267 504
Pentanes Plus	8	0	33	0	612	S	965	1.327	1.039	2.920	349	B 4	8	4 484	13.	230	5 201
Liquefied Petroleum Gases	132	8	166	=======================================	1,963	264	564	2,902	323	1,050	1,536	128	4	3.081	355	637	7 108
Ethane	0	0	0	0	N	0	0	8	0	0	5	0	: <b>c</b>	5	1	3 -	55.
Propane	0	0	0	0	67	0	0	29	0	•	88	0	0	8	· c	•	3 5
Normal Butane	8 8	8,	126	32	906	500	143	1,284	20	501	791	25	13	1,400	242	398	3,450
SODDE STATE	3	>	40	ę	RSS	3	421	1,549	223	248	929	5	8	1,591	8	238	3,498
Other Liquids																	
Other Hydrocarbons and Alcohol	80 9	٥ ;	8	٥	328	0	13	341	0	208	376	0	7	586	0	264	1,199
Motor Gasoline Blending	4,435	/3	4,509	Ŋ	157	-274	142	ĸ	163	14.390	4,176	-10	117	18,836	-193	3,169	26,344
Components (net)	-198	9	-192	4	710	10	83	747	154	255	1,743	53	O	2.214	181	118	3,068
Components (net)	Ŧ	0	Ŧ	0	5	0	4	4	0	0	48	0	0	48	0	8	29
Total Input to Refineries 37,415	37,415	2,498	39,913	1,858	63,316	8,732	20,656	94,562	17,704	97,739	66,627	5,815	2,603	190,488 14.094	14.094	72,823	411,880
Crude Oll Distillation Gross Input (daily average)	1,071	80	1,150	58	1,999	295	653	3,005	544	2,703	1,969	187	12	5.481	458	2.298	12.393
Operable Capacity (daily average)	76.3 76.3	174 45.6	1,578 72.9	66 88.1	2,329 85.8	304 97.0	787 83.0	3,486	604 90.2	3,802 71.1	2,539 77.6	234 63.8	109 70.8	7.348	558 82.2	3,100	16,070
Crude Oil Qualities Sulfur Content, Weighted Average	3	č		i	;	i											
API Gravity, Weighted Average	32.11	40,17	32.70	.56 37.16	.90 35.61	1.78 30.96	.61 37.81	.92 35.66	.62 37.40	.97 34.35	33.00	1.46 32.25	.74 39.32	.95 34.17	.91 35.09	1.01 25.60	.95 32.83
Operable Capacity (daily average)	1,404	174	1,578	99	2,329	304	787	3,486	604	3,802	2,539	294	109	7,348	558	3,100	16,070
Ne	147	<u> </u>	211	80	2,134 175	ည် က	8 9 9	3,247 239	8 8 8	3,622 181	2,362 176	26 26 28 28	10, 2	6,913 435	සු ස	2,894 207	14,950 1,120

Represents gross input divided by operable capacity. Note: Total may not equal sum of components due to independent rounding. Source: See Explanatory Notes on Data Collection and Estimation.

Table 14. Refinery Production of Petroleum Products by PAD District, June 1984 (Thousand Barrels)

	PAD D	D Distric	11		PA	PAD District	=				PAD	District III			0,00	2	
Commodity	East Coast	Appala- chian	Total	Appala- chian	Ind.	Minn.	Okla. Kans.	Total	Texas	Texas	j	Ę,	New	Total	Dist. IV	PAU Dist. V West	United States
Liquefied Refinery Gases	1 224	3	32	,	1	Udrs.	MO.			Coast	Coast	_			M.	Coast	
For Petrochemical Feedstock Use	444	<u> </u>	444	ج د د	, o.,	£25	, 55 50 50 50 50 50 50 50 50 50 50 50 50 5	2,347	342	2,913	3,723	8	107	7,147	106	~	12,077
For Other Uses	780	<u> </u>	794	3.7	167	2.5	220	000	5	960	926	٠ ;	0	3,056	5	8	3,981
Ethane	32	0	35	0		, i c	y c	7,002	,	710.1	467.	25	107	4,091	95		8,096
For Petrochemical Feedstock Use	٥	0	O	0	0	0	· c	•	•	0 0	₽ ₹	<b>&gt;</b> 0	<b>&gt;</b> 0	400	0 (	0 +	432
For Other Uses	33	0	35	0	0	0	0	0	0	197	- 7	<b>5</b> C	<b>&gt;</b> c	986	0 0	0 (	189
riopane	<b>8</b>	14	277	37	1,812	88	425	2.483	307	2 153	1 464	٠ تا	- g	1 797	; ;		243
For Perochemical Feedstock Use	384	0	384	0	206	0	42	248		797	242	3 C	3 -	20,4	<u>}</u>	200	6.604
Nomal Busse	579	14	293	37	1,606	88	383	2,235	276	1.361	1.222	, <u>2</u>	, r	0.00	,		717
For Detrochemical Economics 1122	83 S	0 (	82	0	ഹ	8	-161	-136	33	404	2.244	9	9 4	2738	1 1 1 1		2050
For Other Head	3	Э.	3	0	0	1	0	17	0	145	1.686	0		1831	; -		1000
Sobitane for Petro Feed Tise	<u> </u>	00	169	0 (	40	ო	-161	-153	35	529	558	9	40	907	- 55		138
Finished Motor Gasoline	76.794	<u> ج</u>	200	0 0	0 9	0	0	0	0	-28	0	0	0	-28	=		- 18
Finished Leaded Motor Gasoline	4 892	3 6	7,00,7 4,00,7	2,048	36,188	4,421	11,305	52,962	8,929	45,111	31,709	1,747	1,070	88,566	7,292	_	198,523
Finished Unleaded Motor Gasoline	11.889	46.4	10.05	i i	0.10.10	7,4,4	0,70	/21,52	4,520	16,152	12,301	756	581	34,310	4,296		79,841
Finished Aviation Gasoline	Ç	5	3	5	2/5,12	, io	3;	28,835	4,409	28,959	19,408	<del>6</del> 6	489	54,256	2,996		118,682
Naphtha-Type Jet Fuel	820	, <del>1</del>	89.5	<b>4</b> °	378	2	÷ 5	à 6	2 2	£83	160	0	0	459	8		666
Kerosene-Type Jet Fuel	1,154	0	1.154	. ^	3 151	363	507	3 5	45.0	5	514	119	419	2,725	443		6,272
Kerosene	29	69	128	45	189	12	4	200	5 8	2,010	200	٠ و	<u> </u>	13,593	758		27,340
Distilate Fuel Oil	8,674	Ξ	9,385	450	13,193	2,405	6.121	22,169	4 272	19.046	12.058	00 L	6 6	207700	٠ ز		2,863
Nookto / 400 Don Ton Ton Ton Ton Ton Ton Ton Ton Ton T	3,262	84	3,346	29	1,045	164	267	1,535	88	6.450	2,63	233	560	0,707	7,8/5		86,343
Other Oils > 400 Deg. For Petro, reed, USe	317	0 (	317	0	687	0	2	757	122	2,865	154	1	9 0	3.158	3		433,C2
Special Naphthas	ი ;	0 8	ru i	0	116	0	0	116	127	5,450	2,464	0	0	8.041	<b>&gt;</b>		יים מעל מעל
Lubricants	= ह	ឱ ខ្	<del>6</del>	0	280 1	0	190	470	9	790	8	113	0	1,063	, m		1 694
Waxes	<u>_</u>	3 6	Š	<b>-</b>	552	0 (	113	965	54	1,938	883	362	0	3,213	32		4.895
Petroleum Coke	1160	5 6	24.0	<b>-</b> 6	74 6	<b>?</b>	m ;	ဓ	9	108	102	83	0	279	=		471
Marketable	439	2 0	5.4	9 =	7,17	523	282	3,308	292	2,705	2,425	60	Ξ	5,502	528		13,671
Catalyst	757	σ.	778	÷ %	7 2 2	÷ ÷	9	ביי	, 2g	1,103	1,64	4	0	2,846	107		7,895
Asphalt and Road Oil	3,402	85	3.494	5 5	200,5	7 E	26.5	7.407	234	1,602	8 8	<u>ب</u>	=	2,656	151		5,776
Still Gas	1,708	8	1.802	45	2,639	341	3 5	ה מ ה ה ה ה ה ה ה ה ה ה ה ה ה ה ה ה ה ה	7 4	9 6	2/2/	5.5	114	3,839	828		15,024
For Petrochemical Feedstock Use	163	0	163	0	7	5 0	3 0	0,020	ָ קַּי	4,700 553	1,041	<u>5</u>	\$ 0	8,020	487		18,010
For Other Uses	1,545	8	1,639	45	2,637	341	795	3.818	454	4 147	2 484	, ,	2	2 0	- 0		2,6
Miscellaneous Products	248	20	298	က	174	35	24	266	5 00	657	55.	3 Q	ţ <	1,000	δ 2 3		15,979
Nee Fiel Mee	117	17	134	0	0	0	, Φ	0	, 0	§ 89	188	<b>?</b>	<b>,</b> c	2 5	. c	145	7,7
Non-ruel Use	131	33	164	က	174	35	22	266	6	692	107	49	0	880	2 5		1.437
Total Production	39,192	2,470	41,662	1,900	65.987	9.147	21.199	98 233	17 827	101 385	80 800	600		07.07			
											660'60	coatc	C+0.7	210,19	14,407	, 808.c/	427,890
Processing Gain(-) or Loss(+)1	-1,777	82	-1,749	45	-2,671	415	-543	-3,671	-123	-3,646	-3,272	97	42	-7,131	-313	-3.146	-16,010

1 Represents the arithmetic difference between input and output. Note: See Explanatory Note 2. Source: See Explanatory Notes on Data Collection and Estimation.

Table 15. Percent Refinery Yield of Petroleum Products by PAD District, June 1984

	ď	PAD District	11		PA	PAD District	=				DAD Dictorat	III toka		ľ	6		
Commodity	į.	Appala-		Appala-		Vina	25/20		-	1000		3			3	5	
Commedia	Coast	chian	Total	chian	트 주 주	Wisc.	Kans.	Total	Texas	Gulf		No. La.	New	Total	Dist. N Rocky	Dist. V West	United States
		#		2#		Daks.	MO.			Coast	Coast	ž Č	MEXICO		W.	Coast	
Finished Motor Gasoline2	44.9	31.9	44.1	53 73	546	707	7	7 64		0							
Finished Aviation Gasoline3			•	}	5	į	- -	4,50	40,0	43.D	44.3	26.7	37.5	43.4	49.5	43.1	45.9
finished Before, Coops	7 6		- ;	<b>.</b>		o;	ຕຸ	۳:	۳,	ωį	ιį	o,	o,	c,	-	Œ	0
Nanhtha-Time let Engl	, c	ė i	 	2.7	3.0	2.7	4,	5.6	21	3.1	5.9	=	4.4	4.0	œ	; <del>-</del>	i -
Kerosene-Two let Enel	3 .	<u>`</u>	2 5	4.4	œi (	<del>ار</del> دن	o,	o;	5.8	œί	αć	2.1	17.1	5.	33	6	
Kerosene	- ·	> 6	ۍ ار	4. (	بن د رم	4.	5.6	4.5	5.5	6.2	10.8	٠-	4.4	7.5	5.6	10.9	9 6
Distillate First Oil	, i	o o	ω, f	5.6	, (1)	٠.	u,	ω	ςį	£.	1.5	7.	2.0	1.3	0		}
Residual Final Oil	3 0	20.4	3,5	22.0	22.1	28.6	31.5	24.8	26.4	20.4	20.9	30.9	28.3	21.5	28.8	16.9	. 6
Nanhtha / 400 Dea E Detra Ered Stee	ò	ა 4 ი	4.0	4. 6	89.	50	4.	1,7	3.9	6.9	4.2	4.2	4.	5.5	1.7	14.2	8.4
Other Oils > 400 Dea F Petro Feed Nea	ó c	<b>&gt;</b> c	o c	<b>-</b>	27.0	0 (	4, (	œί	αį	3.1	ņ	ω	0	1.8	0	ij	; <u>;</u>
Special Nanhthas	, c	<u>-</u>	۰ ز	5 6	νiι	o	0 1	-,	œί	5.8	3,9	0	0	4.5	0	, cri	2.1
Lubricants		4 5	٠,	<b>-</b>	ų (	<b>o</b> (	1.0	ιĊ	φį	œί	۳.	5.0	0	φ	Ó	ر م	4
Waxes	ą c	<u> </u>	9	<b>-</b> •	ָרָר (C	<b>-</b>	φ.		٠:	2.	1.4	6.5	0	1.8	٥į	ις	12
Petroleum Coke	, ;	, ,	ų ć	) i	<u>.</u>	۰,	o.	o,	o,	Γ.	cγ	Ξ	0	cy	τ.	٠,	ļ <del>-</del>
Asphalt and Boad Oil	7 7	ŋ ŗ	3.0	ر. دن	9.0	9	3.0	3.7	8-	5.9	3.9	1.2	4.	3.1	6.1	4.7	ς. L
Still Gae	- u	7 0	χο ·		5.4	6.7	3.5	5.1	4.0	œ	2.2	20.0	4.6	2.1	6.4	3.2	38
Miscellaneous Products	P 1	n 0	4. U 1	o (	4.4	4.1	4.	4.3	2.8	5.0	4.2	2,8	5.6	4.5	3.6	5.4	46
TOURIST TOURIS	`,	2.0	`.	7	ų	4	ωį	κi	Ξ.	.7	κi	σį	0	φ.	7	ú	4
Processing Gain(-) or Loss(+)4	4.7	7.	4.	-2.4	4.5	4. 9.	-2.8	4.	8	-3.9	-5.2	6.	-1.7	4.0	-2.3	4.4	Ą

1 Based on crude oil input and net reruns of unfinished oils.
2 Based on total finished motor gasoline output plus net output of motor gasoline blending components, minus input of natural gas plant liquids, other hydrocarbons and alcohol.
3 Based on finished aviation gasoline output plus net output of aviation gasoline blending components.
4 Represents the difference between Input and Production.
Note: Total may not equal sum of components due to independent rounding.
Note: See Explanatory 2.
Source: See Explanatory Notes on Data Collection and Estimation.

Table 16. Imports of Crude Oil and Petroleum Products by PAD District, June 1984 (Thousand Barrels)

			Perform Administration for Defense Districts	Tor Derense Districts		
Commodiny	_	=	=	2	^	Total
Crude Oil (including lease condensate) 1.2	26,167	14,073	52,794	944	8,334	102,311
Natural Gas Liquids	1,403	3,160	401	321	394	5.679
Pentanes Plus	794	0	33	112	0	941
Liquefied Petroleum Gases	610	3,160	366	208	394	4,738
Ethane	0	1,761	0	0	0	1,761
Propane	347	785	155	87	36	1,410
Normal Butane	158 105	368 246	134 77	73 48	215 143	948 619
	4	770	7107	*		
	3,210	214	4,651	Þ	786	9,060
Unitalished Oils 1	1,814	214	4,833	0	15	6,875
Motor Gasoline Blending Components	1,395	0	<b>33</b>	o	17.	2,185
Aviation Gasoline Blending Components	0	0	0	0	0	0
Finished Petroleum Products	35,493	904	3,780	147	1.738	42.061
Finished Motor Gasoline	6,876	82	441	47	718	8,165
Finished Leaded Motor Gasoline	2,147	45	214	45	171	2,629
Finished Unleaded Motor Gasoline	4,730	37	227	8	541	5,536
Finished Aviation Gasoline	234	0	0	0	0	234
Naphtha-Type Jet Fuel	447	0	29	0	œ	485
Kerosene-Type Jet Fuel	753	0	0	0	96 80	843
Bonded Aircraft Fuel	0	0	0	o	0	0
Other	753	0	0	0	06	843
Kerosene	273	o	0	0	0	273
Distillate Fuel Oil	7,322	438	-	97	126	7,985
Bonded Ships Bunkers	0	0	0	0	0	0
Other	7,322	438	-	97	126	7,985
Residual Fuel Oil	18,223	133	1,480	2	445	20,283
Bonded Ships Bunkers	0	0	0	0	0	0
Other	18,223	133	1,480	2	445	20,283
Naphtha < 400 Deg. for Petro. Feed. Use	7	4	1,033	0	0	1,044
Other Oils > 400 Deg. for Petro. Feed. Use	0	0	0	0	0	0
Special Naphthas	415	199	720	<u>(S</u>	27.1	1,606
Lubricants	237	4-	48	(s)	75	374
Waxes	27	S	ഗ	0	က	14
Asphalt and Road Oil	91	o	22	0	0	113
Miscellaneous Products	586	53	-	(s)	-	616
Total Imports	66.273	18.350	61.826	1,411	11,251	159,111
		•	,		,	

Crude oil and unfinished oils are reported by the PAD District in which they
are to be processed; all other products are reported by the PAD District of entry.
 Includes crude oil imported for storage in the Strategic Petroleum Reserve.
 = Less than 500 barrels.
 Note: Total may not equal sum of components due to independent rounding.
 Source: See Explanatory Notes on Data Collection and Estimation.

Table 17. Year-to-Date Imports of Crude Oil and Petroleum Products by PAD District, January - June 1984 (Thousand Barrels)

,			Petroleum Administration for Defense Districts	in for Defense Districts		
Continually		=	ш	>1	۸	Total
Crude Oil (including lease condensate) 1 2	152,633	95,550	320,800	5,939	38,235	613,157
Natural Gas Liquids	8,309	27,870	3,544	3.118	3.319	46 160
Pentanes plus	5,636	0	724	999	510	7.537
Ethone	2,673	27,870	2,819	2,453	2,809	38.623
Eughe	<b>-</b> ;	16,037	0	0	0	16,038
Nome Distance	1,601	7,448	1,276	1,253	467	12.045
loomar outane	643	2,631	981	720	1,405	6,380
	429	1,754	562	480	937	4,161
Other Liquids 1	20,772	2,152	27,652	o	7.674	58 249
Unitrished Oils 1	13,223	2,077	26,220	0	3,533	45.052
Motor Gasoline Blending Components	7,548	75	1,432	0	4.141	13.197
Aviation dasoline Blending Components	Φ	0	0	0	0	0
Finished Petroleum Products	231 622	036.3	6	,		
Finished Motor Gasoline	45.728	0,560	81C,82	1,083	9,161	276,746
Finished Leaded Motor Gasoline	22,032	30.5	3,73	340	3,702	54,228
Finished Unleaded Motor Gasoline	23,696	27.5	2000	321	1,224	26,772
Finished Aviation Gasoline	270	i o	300	<u> </u>	1,4,2	27,435
Naphtha-Type Jet Fuel	1,862	0	1.665	10	~ a	6/7
Kerosene-Type Jet Fuel	8,475	0	0	. 0	364	9,330
Bonded Aircraft Fuel	0	0	0	• 0	0	
Other	8,475	0	0	0	364	8.839
Nerosene Dietilate Erral Oil	1,451	0	<b>9</b>	0	(s)	1,458
Dondod China Dunkan	43,792	1.383	956	647	853	47,631
Other	0 00	0 ;	0	0	0	0
Residual Fuel Oil	43,732	1,383	956	647	853	47,631
Bonded Ships Bunkers	2.6.	) (°	20 C	<b>3</b> 0 (	2.737	141,175
Other	124.913	1517	11 010	0 6	0 10	0
Naphtha < 400 Deg. for Petro. Feed. Use	969	5	6 6 7		75/3	141,75
Other Oils > 400 Deg. for Petro. Feed, Use		; =	7	0 0	•	8/0,5
Special Naphthas	1,970	1.284	5.121	⊃ m	1003	0 401
Lubricants	1,262	02	158	) <del>-</del>	421	1,100
Waxes	80	8	134	. 0	. <del>1</del>	726. 096
Asphalt and Road Oil	196	91	35	. 0	<u>.</u> თ	249
Miscellaneous Products	927	303	1,432	2	52	2,689
Total imports	413,336	130,932	381,515	10,140	58,389	994.312
					•	!

<sup>1</sup> Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry. 2 Includes crude oil imported for storage in the Strategic Petroleum Reserve. (s) = Less than 500 barrels. (s) but on the components due to independent rounding. Sources: See Explanatory Notes on Data Collection and Estimation.

Table 18. Imports of Crude Oil and Petroleum Products by Source and PAD District, June 1984 (Thousand Barrels)

Source	Crude Oil 1	LPG.	Unfin- ished Oils	Gasoline Blending Compo- nents	Finished Motor Gasoline	Jet Fuel	Kero- sene	Distil. Fuel Oil	Resid. Fuel Oil	Special Naphthas	Other Prod- ucts 2	Total Prod- ucts	Total Petro- leum	Total (Daily Average)
							All PAD Districts	Sistricts						
Arab OPEC	5,269	180	0	O	0	0	0	707	1,186	218	964	3,255	8,523	284
Iraq	101	0	Ď	0	0	0	0	0	0	0	0	0	101	က
Kuwait	1,068	0	0	0	0	0	0	0	792	0	0	792	1,860	8
Saudi Arabia	11,962	₹ 18	217	0	0 (	0 (	0 (	0 (	0 (	0 (	١٥	382	12,344	414
United Arab Emirates Subtotal Arab OPEC	550 18,949	345 345	217	00	<b>-</b> •	0 0	၁ဝ	707	0 1,978	0 218	1,780	81 / 5,245	1,366 24,195	45 806
Other OPEC	,	ć	•	ć	٥	•	c	c	į	c	٥	7	7	ę
Coador	5/0,1	<b>-</b>	<b>o</b> c	<b>-</b>	<b>-</b>	<b>&gt;</b> C	> c	<b>5</b> C	411	<b>5</b> C	<b>ə</b> c	L 4 L C	710	2 6
Indonesia	10.965	0	0	0	67	37	0	. t	1.134	235	(S)	1.485	12.451	415
Nigeria	6,991	0	288	0	0	. •	0	O	0	0	•	288	7,279	243
VenezuelaSuhiotal Other OPEC	7,350	00	977 1 265	00	1,567	225 26.1	00	2,825	4,013 5,558	235	271	9,879	17,229	574 1.305
	ļ	1	<u> </u>	j			•				i			
Other	2 478	c	-	•	c	c	c	c	c	c	c	c	3.478	116
Australia	009	0	• •	• •	169	ത	0	3 c	5	• 0	. <del>6</del>	274	874	8
Ваћатаѕ	0	0	784	0	0	0	0	225	491	0		1,501	1,501	5
Brazil	0	0	٥	0	851	0	0	٥	1,895	37	ક (ક	2,784	2.784	8 5
Conco	1 060	3,994	eg ⊂	0 0	433 C	∞ c	- 0	2/6	623 167	252	243	6,760	14,974	499 41
Egypt	, 8 8	0	0	• •	0	0	0	0	9 0	0	0	0	78	56
France	0	0	0 (	0	161	0 (	0	0 ;	o ;	٥ (	(s)	162	162	ın ı
Malaysia	0 6	0 6	0 0	0 5	Z6 (3)	ې ۵	0 (	<u>က</u> က (	<del>ر</del> د	D (	0 8	125	2 2	۲ د د د
Mexico	750,81	90°	è c	200	(e) 505	η ⊂	o c	747	o c	(e)	8 4	4.333	1.334	2 4 2 4
Netherlands Antilles	۰ ۰	o 0	1,085	219	262	188	0	367	4,613	0	i o	7,034	7,034	234
	4,516	0	0	0	0	0	0	0	0	0	0	0	4,516	151
Ощап	497	0	0	0	0	0	0	0	G ·	0	0	0	497	17
People's Republic of China	සි සි	0 0	0 0	909	267	0 0	0 0	0 0	0 997	0 0	en c	876	1,505	3 8
Dioto Dioc	3 6	o c	2 2	<b>o</b> c	7 20		<b>o</b> c	<b>o</b> c	3 -	978	27.0	2 6	1 594	3 8
Romania	0	0	0	303	38	0	0	0	389	0	i	1,087	1,087	38
	0	0	0	0	240	0	0	0	0	0	0	240	240	8
Trinidad and Tobago	3,106	0	0.	0	0	0	0	0	0	0		0	3,106	<b>1</b> 05
United Kingdom	9,154	ල ද	0	0	368	0	0	0	0	0 ;	(S)	398	9,552	318
Virgin Islands	0 9	0	1,297	0 0	1,038	787	273	4,654	2,890	5 5	<b>-</b>	8,042	8,042	8 g
Other Western	60.'.	>	>	>	>	5	>	>	5	Þ	•	•	2011	3
Hemisphere	149	0	0	0	0	0	0	0	622	72	(§)	9/9	825	78
Other Eastern Hemisphere	3,155	(s)	872	183	722	4	0	288	529	292	904	3,534	6,689	5 223
Subtotal Other	56,264	4,393	5,393	2,185	6,530	1,066	273	4,440	12,747	1,153	218,1	39,492	92/56	3,192
Total Imports	102,311	4,738	6,875	2,185	8,165	1,327	273	7,985	20,283	1,606	3,364	56,800	159,111	5,304
•							PAD District I	strict I						
Arab OPEC						waris american					M. State of the st		The second secon	
Algeria	1,313	180	0 5	00	00	00	00	70 <u>,</u>	1.186	218	00	2,291	3,604	85
Saudi Arabia	2,694	န္မင	217	o o	00	00	00	00	30	20	917 0	382	3,0/6	52
Substitute Areb OPEO	\$ .	670	F.	0	ο	0	, 0	707	4,100	i C		0.400	7.400	955

Table 18. Imports of Crude Oil and Petroleum Products by Source and PAD District, June 1984 (Thousand Barrels) (continued)

		******			100									
Source	Crude Oil 1	LPG	Unfin- ished Oils	Gasoline Blending Compo- nents	Finished Motor Gasoline	Jet Fuel	Kero- sene	Distil. Fuel Oil	Resid. Fuel Oil	Special Naphthas	Other Prod- ucts 2	Total Prod- ucts	Total Petro- leum	Total (Daily Average)
				:			PAD District	strict I					!	
Other OPEC Ecuador	0	0	O	0	0	C	O		411	c		411	411	7
: :	0	0	0	0	0	0	0	0	0	0	•	0	0	<u>t</u> 0
Indonesia	931	0	0 (	0	0	0	0	0	523	0	0	523	1,454	48
Vocamela	2,886	<b>5</b> C	o 6	<b>&gt;</b> c	0 70	ם ני	<b>-</b>	0 20	9	0 0	9	0 9	2,886	96
Subtotal Other OPEC	5,958	00	00	00	1,340	S 52	00	2,825	3,769 4,702	00	27.1	8,430 9,363	10,5/1 15,321	352 511
Other	707.6	c	c	c	c	c	d	c	•	ć	ć	ć	ć	Ş
Anetholis	70,04	<b>o</b> c	<b>.</b>	0	<b>-</b> 0	> 0	> <	- (	•	<b>-</b>	<b>-</b>	<b>o</b> (	2,784	e (
AuswallaBahamas	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b> C	<b>-</b>	<b>-</b>	<b>-</b>	2 2 2 3	) P	<b>ə</b> c	> <	0 4.	716	ې ٥
Brazil	0	0	0	0	637	0	0	30	1.895	•	) (§)	2.532	2.532	* 8
Canada	884	236	ιΩ	0	5962	0	-	403	481	9	<i>"</i>	1,515	2,399	8
Congo	567	0 (	0 (	0	0 (	0	φ.	0	167	0	0	167	735	24
Egypt	<b>%</b>	<b>&gt;</b> c	<b>o</b> c	<b>5</b> 6	0 191	0 0	0 0	0 0	0 (	0 0	0 {	0 ;	784	. 26
Mexico	2.833	0	0	873		9 6	) c	74	<b>-</b>		ح <u>ق</u>	101	2 851	128 U
Netherlands	-	0	0	0	506	0	0	746	0	38.	) (s)	1,287	1,288	5 4
Netherlands Antilles	0	0	603	219	562	188	0	367	4,613	0	0	6,552	6,552	218
Norway	2,533	۰ د	0 0	0 0	0 0	00	0 0	0 (	0 0	0 (	0 0	0 0	2,533	84
People's Republic of China	630	- 0	0	0	00	0	o c	<b>&gt;</b> C	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b> C	630	2 5
Peru	0	o	0	0	0	0	0	0	456	0	0	456	456	- 5
Puerto Rico	0	0	215	0	722	0	0	0	٥	146	228	1,311	1,311	4
Romania	0 (	۰ ۰	0 (	999	395	0	0	0	389	0	0	1,087	1,087	99
Spain Trinidad and Tobado	908	o c	0 0	<b>o</b> c	240	0 0	0 0	0 0	0 0	0 0	00	240	240 906	ထင္ဂ
United Kingdom	3.052	8	0	0	368	0	0		•	o c	(s)	397	3.449	115
Virgin Islands	0	0	774	0	1,038	787	273	1,654	2,854	. 0		7,378	7,378	246
Zaire	199	0	٥	0	0	0	0	0	0	0	0	0	199	7
Uner westem Hemisphere	0	0	0	0	0	0	0	0	622	0	0	622	622	21
Other Eastern Hemisphere	534	0	0	0	613	0	0	250	366	0	582	1.811	2.345	78
	16,203	265	1,597	1,395	5,536	975	273	3,790	12,335	198	889	27,253	43,456	1,449
Total Imports	26,167	610	1,814	1,395	6,876	1,200	273	7,322	18,223	415	1,976	40,106	66,273	2,209
ı							PAD District II	trict 11						
Arab OPEC	486	0 (	0	0	ō	0	0 1	0 1	ō	ō	Ó	0	486	16
Subtotal Arab OPEC	<del>6</del>	<b>5</b>	<b>&gt;</b>	<b>&gt;</b>	9	>	>	>	>	0	<b>5</b>	0	486	9
Other OPEC Ecuador	372	00	00	00	00	00	00	00	00	00	00	00	372	54
Subtotal Other OPEC	1,734	00	00	0	0	0	00	0	0	0	00	00	1,734	5 85 C 85

See footnotes at end of table.

Table 18. Imports of Crude Oil and Petroleum Products by Source and PAD District, June 1984 (Thousand Barrels) (continued)

Source	Crude Oil 1	ยสา	Unfin- ished Oils	Gasoline Blending Compo- nents	Finished Motor Gasoline	Jet Fuel	Kero- sene	Distil. Fuel	Resid. Fuel Oil	Special Naphthas	Other Prod- ucts 2	Total Prod- ucts	Total Petro- leum	Total (Daily Average)
							PAD C	PAD District II						
Other Australia	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>C</b>
Canada Condo	6,010	3,158	214	00	82	0	0 (	438	133	199	22	4,276	10,285	343
France	,	0	•	0	<b>5</b> 0	0	0 0	<b>5</b> C	0 0	0 0	0	<b>0</b>	492	91
Mexico	4,304	0	0	0	0	0	0	0	0	0	0		(3)	(9) 143
	۲ و	0 (	۰ ۵	0 (	0 (	0	0	0	0	0	0	0	0	0
Trinidad and Tobaco	824	> 0	<b>&gt;</b> c	<b>-</b>	<b>D G</b>	0 0	0 0	0 (	0 0	0 (	0	0	222	7
United Kingdom	0	· <del>-</del>	0	0	<b>,</b> 0	00	0	00	<b>-</b> 0	00	ଡ	0 -	824	27
Other Western Homicaboro	•	ć	(	•				1	•	•	E	-	-	2
Other Eastern Hemisphere	<b>&gt;</b> C	) (8	0 0	0 0	0 (	0 (	0 (	0 (	0	0	0	0	0	0
Subtotal Other	11,852	3,160	214	00	8 0	0	00	438	133	0 199	(s) 25	(s) 4,277	(s) 16,129	(s) 538
Total Imports	14,073	3,160	214	0	85	0	0	438	133	199	52	4,277	18,350	612
							PAD Di	PAD District III						
Arab OPEC	-													
Algeria	3.470	0	c	c	c	c	•	¢	c	(	č	ě		!
Iraq	101	0	0	o	o c	<b>&gt;</b>	> c	<b>-</b>	0 0	<b>-</b>	2 2 4	8 0	4,433	148
Kuwait	1,068	0	0	0	0	0	0	0	26.0	o c	9 6	20.0	1 860	ກເ
Saudi Arabia	9,268	0	0	0	0	0	0	0		<b>•</b> •	9 6	26,	96.0	7 g
United Arab Emirates	550	0	0	0	0	0	0	0	0	0	0	0	550	18
Subtotal Arab OPEC	14,457	0	0	0	0	0	0	0	792	0	964	1,756	16,212	240
Other OPEC														
Ecuador	707	0	0	0	0	0	0	0	0	0	C	c	707	60
Gabon	719	0	0	0	0	0	0	0	0	0	0	0	719	2 2 2
Niceria	2,890	<b>.</b>	0 8	0 (	0 (	0	0	0	406	0	0	406	3,297	110
Venezirela	4 994	<b>-</b>	2 29	<b>-</b>	0 1	0 0	0 (	0	0 !	0	0	288	3,031	101
Subtotal Other OPEC	12,047	0	1,265	0	227	<b>-</b> 0	0	<b>&gt;</b> 0	245 651	00	00	1,449	6,444	215
Other												•	•	•
Angola	694	0	0	0	0	0	0	0	0	0	0	C	694	8
Australia	0	0	0	0	0	0	0	0	0	0	48	. <del>4</del>	84	3 °
Bahamas	0	0	784	0	0	0	0	0	0	0	0	784	784	, K
Brazil	0 0	0 0	00	0	214	0 (	0	0	0	37		252	252	စ
	<b>S</b>	<b>.</b>	<b>&gt;</b> c	<b>&gt;</b> 0	<b>5</b> (	<b>-</b>	0 (	0	0	0	জ	(s)	(8)	<u>(s)</u>
	> 0	- 0	<b>5</b> 6	<b>&gt;</b> (	<b>5</b> (	<b>-</b>	0	0	0	0	0	0	0	0
Molecula	0 (	<b>5</b> (	o •	<b>5</b> (	۰ ۵	0	0	0	0	0	(s)	<u>(s)</u>	(S)	(s)
Movico	0 0000	0 886	o 5	0 (	0 (	, ٥	0 (	0	0	0	0	0	0	0
Mexico	14,334	9	) (1)	<b>&gt;</b> (	<b>.</b>	R	0	Ψ-	0	<u>(s)</u>	86	1,389	13,783	459
Medical - 4 - 4 - 4	<b>o</b> (	<b>o</b> (	<b>O</b>	0	0	0	0	0	0	0	46	46	46	8
Neurenands Angles	0	<b>o</b> .	482	0	0	0	0	0	0	0	0	482	482	9
Norway	1,984	0 (	0 (	0 (	0	0	0	o	0	0	0	0	1,984	99
Trinidad and Tobasa	) 1040 1	<b>-</b> (	<b>-</b>	<b>ɔ</b> (	0 (	o ,	0 (	0	0	233	0	233	233	83
United Kingdom	3,3/6	<b>o</b> c	0 0	0 0	0 0	0	0 0	0 (	0 1	0		0	1,376	46
	9,100	ا ا	>	<b>&gt;</b>	o ·	3	0	0	0	0	9	(s)	6,102	203
											1			

See footnotes at end of table.

Table 18. Imports of Crude Oil and Petroleum Products by Source and PAD District, June 1984 (Thousand Barrels) (continued)

Source	Orude Oil 1	LPG	Unfin- ished Oils	Gasoline Blending Compo- nents	Finished Motor Gasoline	Jet Fuel	Kero- sene	Disti. Fuel	Resid. Fuel	Special Naphthas	Other Prod- ucts 2	Total Prod- ucts	Total Petro- leum	Total (Daily Average)
							PAD District III	strict III						
Other Virgin Islands	0.6	00	523	00	00	00	00	00	37	401	00	664	664 970	22
Hemisphere	2,621 26,290	0 0 366	0 872 3.567	0 8t 8t	0 0 214	0 C S	000	00,-	0 0 37	54 292 720	(s) (s) 180	54 1,182 5,133	203 3,803 31,423	7 127 1,047
Total Imports	52,794	366	4,833	81	441	29	0	-	1,480	720	1,144	9,032	61,826	2,061
							PAD District IV	strict IV				į		
Other Canada	8	208	0	0	47	0	0	97	~	(S)	113	468	1 411	47
France Other Eastern Hemisphere Subtotal Other	0 0 44	0 0 208	000	000	0 0 47	000	000	0 0 0	1000	) () ()	0 0 5	0 0 89	0 0 1.4	0 0 0 47
Total Imports	944	208	0	0	47	0	0	97	∾	(S)	113	468	1,411	47
							PAD District V	strict V						
Arab OPEC Algeria	000	000	000	000	000	001	001	00	00	00	00	00	00	00
Other OPEC	>	•	•	5	5	>	5	•	0	0	0	0	0	0
Ecuador	0 7,144 214 7,358	0000	0000	0000	0 67 0 67	0 37 0 37	0000	0 £ 0 £ 1	205 0 205 205	235 0 235 235	0 (S) (S)	556 0 556	7,700 214 7.914	257 7 264
Other Australia	009	٥٥	0 (	0 (	169	on o	0	59	10	0	0	227	826	28
Canada France Malaucia	376	385	2500	000	၁၈ဝ	300	000	0 % 0	0 / 0	ဝမ္ကဝ	(§	0 502 (s)	0 878 (s)	0 8 (§
Mexico People's Benefit of China	000	⊃ m c	900	0 0 0	) 6 0 6 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6	000	-00	(s)	. o	00	O m +	155	155	(s)
Puerto Rico	000	000	000	800	ò	000	000	000	000	000	ස වූ අ	876 50	876 50	53
Other Eastern Hemisphere Subtotal Other	976	(s) 394	o 0 tč	165 771	109 651	4 %	000	38	163 240	၁ဓာမ္က	22 o 28 o	0 541 2,362	541 3,337	0 11 11
Total Imports	8,334	394	15	771	718	88	0	126	445	27.1	79	2,918	11,251	375
Totologo openio	the same	10 cut at 11	£										l	

1 Includes crude oil imported for storage in the Strategic Petroleum Reserve.
2 Includes aviation gasoline, waxes, asphalt, lubricants, pentanes plus, naphthas less than 400 degrees F and ous products, (s) = Less than 500 barrels or less than 500 barrels f components dure footal man 500 barrels or less than 500 barrels or less than 500 barrels footal man 500 barrels footal footal

Table 19. Year-to-Date Imports Of Crude Oil and Petroleum Products by Source and PAD District, January - June 1984 (Thousand Barrels)

			8											
Source	Crude Oil 1	PG	Unfin- ished Oils	Gasoline Blending Compo-	Finished Motor Gasoline	Jet Fuel	Kero- sene	Distil. Fuel	Resid.	Special Naphthas	Other Prod- ucts 2	Total Prod- ucts	Total Petro- leum	Total (Daily Average)
							All PA	PAD Districts						
1										6	0	6	57 423	316
rab OPEC	26 283	180	253	0	434	327		2,94	11,63	2,046	3,220	0,12	102	-
Algeria	102	ô	0	0	0			0.0			0	3,685	7,589	42
Town X	3,904	0	٥	0	0 (					0	(s)	2,635	65,412	329
	62,777	503	1,119	0	0 (	- 6					1,586	4,894	19,650	108
Emirates	14,757	0 683	795 2,167	546 546	434	548		0 2.941	18,077	2,04	4,812	32,254	150,176	825
9								,			c	1 392	10 432	57
Other OPEC	9 040	0	0	٥	0		0	0	1,392	- G	o C	306	8,841	49
Ccuadol	8,535	0	0	0	0	,	0 (	č	ζ,	ч	72	8,962	59,114	325
Indonesia	50,152	1,356	1,787	0	913	128	20 6			?	0	0	2,071	=
	2,071	0	0		0 (		<b>5</b>	200	σ		0	1,725	47,536	261
Nideria	45,811	0	1,582		٥ <u>.</u>		<b>.</b> 9				506	49,869	95,815	526
VenezuelaSubtotal Other OPEC	45,947 161,556	0 1,356	2,788 6,156	699	11,029	2,335	δÑ	0 10,363	3 29,175	595	578	62,255	223,811	1.230
											1	Ċ	10.400	8
Other	10 067	c	_		0		0	0 0	0 568		o ţ	268	15,435	3 8
Angola	70000	9		c	311	.,					CEL .	•	4,661	6
Australia	60/7	g c	738			9	629	69 3,535	5 4,749		נדר,2		190'91	; -
Bahamas	מיני	o C	3								5	0 537	9538	52
Drazil	2	0	0		4,231		0	0	6/0'5 0	502			0	0
Barbei	0	0	٥					•	0 7027	•	98.0	55.141	117,688	647
Canada	62,547	34,544	1,826	75	3,261		<b>.</b>	32 6,532			J		6,337	35
Condo	5,427	0	0		0 (		<b>-</b>	<b>-</b>			0		1,842	9
Egypt	1,842	0	•				5	5		(s)	-	173	173	
France	0	<u>(S)</u>	<u>@</u>		2			c	119		_			- :
Ghana	0	0 (					, c		0 1,749	6.	-	-		0
Liberia	0 0	<b>-</b>	7							0 66			,	7 202
Malaysia	707	4 47			439		244	0 1,093				13,089	134,162	5 6
Mexico	1 045	_	)				196	0 6,1		8	513			227
Netherlands Applifies			6,983	3 426	5,831		909		97 25,198			4		110
Norway	19,206	(S)					451		366			1239		
Oman	993					<u> </u>	<b>-</b> (	5 0	<u>.</u>	347		3 4,974		
People's Republic of China	Ψ.			3,70	30	m (	<b>&gt;</b>	<b>5</b> C	0 4322	}		0 4,695		
Peru							٠ پر				1,202			
Puerto Rico	•			•			3 -			183				
Romania		0 (	252	50,7	91.0		1016			782		ന്		
Spain	o									53	7	6 865	14,400	
Trinidad and Tobago	13,534			<u> </u>		<b>,</b> c	o (c		0					(s)
Tunisia			1 0				325		163 6	655 156	607 9			
United Kingdom	. 59,380		G	200	9518	4	-		10,628 25,088			58,022	58,022	
Virgin Islands	5.526							0	0	0	0	~ >	שאבינים ו	
Other Western							c	Œ	43 5.0	5 949 20	203 14	144 8,170	3 8,742	48
Hemisphere	. 572	127	1,699	o.	0	5	>	5				l		

See footnotes at end of table.

Table 19. Year-to-Date Imports Of Crude Oil and Petroleum Products by Source and PAD District, January - June 1984 (Thousand Barrels) (continued)

Totai Total Petro- (Daity leum Average)		50,994 280 5 620,325 3,408	5 994,312 5,463			253	13,409	3 2,754 15 4 42,006 231		1,694	14.936		55,942	89,049		우	9.394	7,894	9 18,189 100	3,342	162	119	1,749	19,756	38,581	13,508	1,578	1,305		6,904	2,697	3,139	7	32 726 185
Total Prod- ucts		.0 29,230 .5 286,646	5 381,155		16.426			38 2,318 31 20,114			1242		4	339 47,144		0 0		2	60 11,729		162		0 1,74		7 38,581		0 585	(S)			(s) 2,697	æ 0 (		282 A 186
Other Prod- ucts 2		1,960	18,015			0		1,338 2,081			_															_		(S)				~ .	0	•
Special Naphthas		1,145 6,761	9,401		218	0	0	218		0 6	2 0		. 0	99	,		<b>5</b> C		116		) (S)	:		<u>ن</u> ک	ş <b>o</b>				895					3
Resid. Fuel		8,861 93,923	141,175		11 634	0	0	434 12,068		1,392	1014	6	22,597	25,340	i	268	440	4,816	3,181	910	9 6	119	1,749	328	25.006	0	585	0 5	4,000	389	782	858	0	250
Distil. Fuel Oil	Districts	2,379 34,327	47,631	PAD District I	2.B30	0	0	0 2,890		0 0	0	G	10.044	10,094		0 (		0	4,388	0 0	9 0	0	0	882	1,838	366	0	0 6	772	0	123	0	0	5
Kero- sene	AII PAD	60 1,458	1,458	PAD D				00			<b>-</b> C						⊃ @															٥		
Jet Fuel		1,473 9,492	12,375		327	i °	0	0 327		0 0	<b>-</b> C	. 0	2.206	2,206		Φ,	0.50	3	0		<b>-</b>		9	25	190	88	J		253		66	Φ	_	
Finished Motor Gasoline		6,972 42,765	54,228		434	0	0	0 434		00	<b>-</b>	0	8.877	8,877		0	00	3.076	1,370	0	161	-	0	(g)	4,734	0	0	0	2470	917	967	0	0	
Gasoline Blending Compo- nents		1,033 11,982	13,197		0	0	0	546 546		0 (	<b>&gt;</b> C	0	0 0	0		0	0 0	<b>o</b> c	0	0	0	0	0	3,216	190	90	0	0	0 0	2 291	0	0	0	
Unfin- ished Oits		5,346 36,729	45,052		٥	0	867	0 867		0	0 oc	0 0	o C	228		0	0 5	- -	36	0	0 0	o	0	0	0 0	0	0	0	1, o	3.6	70	5	0	
LPG		2 36,585	38,623		180	3 0	203	0 883		0 (	0 0	o c	<b>&gt;</b> C	0		0	0 0	<b>5</b> C	1,546	0	0	_	0		( <u>s</u>	0	0	0	0 0	o c	•	0	0	
Crude Oil 1		21,764 333,679	613,157		0 165	253	12,039	436 21,893		305	1,575	14.455	11,433	41,904		9,574	0 0	۰ د	6,460	2,432	1,168	o	0	15,078	<del>-</del> c	13.053	993	1,305	N C	0 0	<b>&gt;</b> C	2,290	N	1
Source		Other Other Eastern Hemisphere Subtotal Other	Total Imports	,	Arab OPEC	Kowait	Saudi Arabia	United Arab Emirates Subtotal Arab OPEC	Other OPEC	Ecuador	Gabon	Indonesia	Nigeria	Subtotal Other OPEC	Other	Angola	Australia	Bahamas	Canada	Congo	Egypt	Character	Liberia	Mexico	Netherlands	Netherlands Antilies	Oman	Rep	Peru	Puerto Fico	Homania	Trinidad and Tobago	Timicia	TOTAL STREET,

See footnotes at end of table.

Table 19. Year-to-Date Imports Of Crude Oil and Petroleum Products by Source and PAD District, January - June 1984 (Thousand Barrels) (continued)

	- 8		ished Oits	Blending Compo- nents	Motor Gasoline	Jet Fuel	Kero- sene	Puel Oil	Resid. Fuel Oil	Special Naphthas	Other Prod- ucts 2	Total Prod- ucts	Total Petro- leum	Total (Daily Average)
							PAD District	strict 8						
Other Virgin Islands	2.768	00	3,150 0	00	9,518 0	4,219 0	1,291	10,628 0	24,752 0	0 0	0 0	53,559	53,559 2,768	294 15
Utiliar western Hemisphere	0 4,169 88,837	127 2 1,990	611 4 12,129	0 800 7,002	0 6,382 36,417	0 627 7,804	0 60 1,451	32 2,185 30,808	5,949 6,346 87,505	0 455 1,692	8 1,053 6,648	6,726 17,914 193,445	6,726 22,083 282,282	37 121 1,551
Total Imports	152,633	2,673	13,223	7,548	45,728	10,337	1,451	43,792	124,913	1,970	890'6	260,703	413,336	2,271
							PAD District II	strict 11				1		
Arab OPEC Algeria	4,739	0	0	0	0	0	0	0	0	0	0	0	4.739	26
Saudi Arabia	2,092	0 0	0 0	0 0	0 0	0 (	0	0 (	0	0 (	0	0	2,092	Ξ,
Subtotal Arab OPEC	7,906	0	00	00	0	0	0	<b>-</b> •	<b>•</b> •	0	00	00	7,906	43 6
Other OPEC Ecuador	1,430	0	0	0	0	0	0	0	0	0	٥	0	1,430	α
Indonesia	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iran	1,040	0 6	0 8	0 0	0 0	0 0	0	Φ (	0 0	0 0	0 (	0 8	1,040	9
Venezuela	4,832	0	0	<b>-</b> 0	<b>-</b> 0	<b>-</b> 0	0	o	<b>o</b> o	0 0	0 0	203	5,035	8, 0
Subtotal Other OPEC	7,719	0	203	0	0	0	0	0	0	0	0	203	7,922	44
Other	C	ć	ć	•	(	•	•	•	•	(	•	(	•	'
Ausualia	<b>-</b>	<b>-</b>	÷ 0	<b>&gt;</b> c	<b>-</b>	<b>-</b>	<b>5</b>	<b>5</b> 6	<b>-</b>	0 0	<b>-</b>	2 0	0 6	۰,
Canada	44 859	27 R69	7.75 7.75	. K	0 7	o c	<b>&gt;</b> C	1 383	1517	1 284	507	37.056	70.815	- 067
Congo	1,427	0	0	0	3	0	0	9	2	0	3 0	0	1,427	) F
France	0	С	0	0	0	0	0	0	0	a	(S)	(S)	(S)	(S)
Mexico	24,613	0	0	0	0	0	0	0	0	0			24,613	136
Netherlands	1,044	0	0	0	0	0	0	0	0	0	0	0	1,044	w
Norway	519	0 (	0 (	<b>Q</b> (	0 (	0 (	Φ,	0	0	0	0	0	519	(1)
Perd	5 107	0 0	0 0	00	00	0 0	0 0	0 0	00	0 0	0 0	00	222	- 5
United Kingdom	1,727	) +	0	<b>,</b> 0	0	0	0	0	0	0 0	·-	И	1,730	10
Hemisphere	0	0	0	0	0	0	0	0	0	0	0		0	J
Other Eastern Hemisphere Subtotal Other	407 79,924	(s) 27,870	0 1,873	75	0 667	00	00	0 1,383	0 1,517	1,284	510	2 35,179	409 115,103	2 632
Total Imports	95,550	27,870	2,077	75	667	0	0	1,383	1,517	1.284	510	35,382	130 932	719

Table 19. Year-to-Date Imports Of Crude Oil and Petroleum Products by Source and PAD District, January - June 1984 (Thousand Barrels) (continued)

21545         0 <th>  1,245</th> <th>Source</th> <th>Crude Oil 1</th> <th>PG.</th> <th>Unfin- ished Oils</th> <th>Gasoline Blending Compo- nents</th> <th>Finished Motor Gasoline</th> <th>Jet Fuel</th> <th>Kero- sene PAD Di</th> <th>ene Distil. Fuel Oil</th> <th>Resid. Fuel Oil</th> <th>Special Naphthas</th> <th>Other Prod- ucts 2</th> <th>Total Prod- ucts</th> <th>Total Petro- leum</th> <th>Total (Daily Average)</th>	1,245	Source	Crude Oil 1	PG.	Unfin- ished Oils	Gasoline Blending Compo- nents	Finished Motor Gasoline	Jet Fuel	Kero- sene PAD Di	ene Distil. Fuel Oil	Resid. Fuel Oil	Special Naphthas	Other Prod- ucts 2	Total Prod- ucts	Total Petro- leum	Total (Daily Average)
21545         0 <td>  1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,</td> <td></td> <td>ı</td> <td></td> <td> </td> <td></td>	1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,		ı													
4,846         0 <td>3562         0</td> <td></td> <td></td> <td>00</td> <td>00</td> <td>0 0</td> <td>0 0</td> <td>0 0</td> <td>00</td> <td>දු ද</td> <td>0 (</td> <td>1,828</td> <td>2,483</td> <td>4,361</td> <td>25,906</td> <td>142</td>	3562         0			00	00	0 0	0 0	0 0	00	දු ද	0 (	1,828	2,483	4,361	25,906	142
87,190         0 <td>6,646         0         57         0         0         271         0         0         1013         0         0         1013         0         1013         0</td> <td></td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td></td> <td><b>&gt;</b> C</td> <td>3 685</td> <td><b>&gt;</b> C</td> <td>0 0</td> <td>0 200</td> <td>102</td> <td>• ¢</td>	6,646         0         57         0         0         271         0         0         1013         0         0         1013         0         1013         0			0	0	0	0	0		<b>&gt;</b> C	3 685	<b>&gt;</b> C	0 0	0 200	102	• ¢
13246   0 527   0 0 221   0 0 121   0 0 131   0 0 249 2.702   1,5553   1,	13,246   0   527   0   0   221   0   0   1,311   0   249   2,307     6,594   0   0   0   0   0   0   0   0   0			٥	0	0	0	0	0	0	1,013	0	0	1.013	49.659	273
6.594 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6.594 (6.50) (7.	ites		00	527 527	00	00	ន្តន	00	20 0	1,311 6,010	0 1,828	249	2,307	15,553	885
1,500,   1	6,948         0 <td></td> <td><u>.</u></td> <td>: :</td> <td>i i i</td> <td>! •</td>												<u>.</u>	: :	i i i	! •
6,990         1,000         0	1,002			0	0	0	0	0	0	0	٥	٥	0	0	6.948	38
26,524         0         0         0         1,719         0         71         3146         1,255           26,524         0         1,379         0         0         0         0         1,719         0         71         3146         1,255           31,228         0         1,379         0         0         0         0         0         0         1,002           31,228         0         2,786         0         0         0         0         0         0         0         0         1,002           31,228         0         <	1,035		6,960	0	0	0	φ.	0	0	0	0	0	0	0	6,960	3 8
5,524         0         1,379         0	8,112         1,379         0		9,409	005, 0	<b>-</b>	<b>5</b> C	<b>o</b> c	0 0	0 (	0	1,719	0	. 71	3,146	12,556	69
33,238         0         2,788         669         992         0         0         976         68         157         5,559         2,788           6,234         0 <t< td=""><td>31,238         0         2,788         668         992         0         0         6,786         68         167         1,356         168         178         1,559         168         178         1,559         168         178         1,558         2         1,586         168         187         2,558         2         1,586         1,68         187         1,586         1,08         1,08         1,586         1,08         1,19</td><td></td><td>26.524</td><td>0 0</td><td>1.379</td><td><b>o</b> C</td><td>o c</td><td><b>&gt;</b> C</td><td><b>-</b></td><td>) r</td><td><b>=</b></td><td>0 (</td><td>0 (</td><td>0 ;</td><td>1,032</td><td>9</td></t<>	31,238         0         2,788         668         992         0         0         6,786         68         167         1,356         168         178         1,559         168         178         1,559         168         178         1,558         2         1,586         168         187         2,558         2         1,586         1,68         187         1,586         1,08         1,08         1,586         1,08         1,19		26.524	0 0	1.379	<b>o</b> C	o c	<b>&gt;</b> C	<b>-</b>	) r	<b>=</b>	0 (	0 (	0 ;	1,032	9
6.294         1.356         4,166         669         992         0         3         2,595         68         1087         1087         94,198           6.294         0	6.294         1,356         4,166         669         992         0         3         2,595         68         238         10,1037         9           6.294         0         0         0         0         0         0         0         135         138			0	2.788	699	266	¢	o c	n c	0 8	⊃ ą	ם נ	1,382	27,906	153
6.294         0 <td>6.294         0<td>PEC</td><td></td><td>1,356</td><td>4,166</td><td>699</td><td>992</td><td>0</td><td>0</td><td>m</td><td>2,595</td><td>88</td><td>238</td><td>10.087</td><td>38,797 94,198</td><td>518</td></td>	6.294         0 <td>PEC</td> <td></td> <td>1,356</td> <td>4,166</td> <td>699</td> <td>992</td> <td>0</td> <td>0</td> <td>m</td> <td>2,595</td> <td>88</td> <td>238</td> <td>10.087</td> <td>38,797 94,198</td> <td>518</td>	PEC		1,356	4,166	699	992	0	0	m	2,595	88	238	10.087	38,797 94,198	518
6,294         0 <td>6,294         0<td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td>	6,294         0 <td></td>															
2         0         0         0         0         0         0         0         135         136         13	2         0         489         0         0         0         0         0         135			0	0	0	o	0	0	0	0	0	0	0	6 294	35
26         0         4,839         0         0         0         279         0         1,331         7,049         7,049           26         0	260         0         4,899         0         0         279         0         1,931         7,049           260         0         0         0         0         0         0         0         1,931         7,049           1,567         0         0         0         1,156         0         0         0         1,645         1,645           1,567         0	********	<b>r</b> v	Φ	0	o	0	0	0	0	0	0	135	135	136	3 -
1,567   0   0   0   0   0   0   0   0   0	1,567   0   0   0   0   1,156   0   0   0   0   0   0   0   0   0		0 ;	о (	4,839	0	0	0	0	279	0	0	1,931	7.049	7,049	39
1,567	1,567			00	0 0	0 (	0 ,	0 (	0 (	٥	0	0	٥	0	260	
1,567   0	1,567   0		) <sub>T</sub>	<b>&gt;</b> c	<b>&gt;</b> c	<b>-</b>	961,1	<b>O</b> (	0 6	0 (	263	505	ន	1,645	1,645	6
674         0         (s)         0 <td>674         0         (s)         0<td></td><td>1567</td><td><b>&gt;</b> C</td><td>o c</td><td>0 0</td><td>0</td><td><b>-</b></td><td><b>&gt;</b> &lt;</td><td><b>-</b></td><td>- 0</td><td>186</td><td>۲,</td><td>257</td><td>258</td><td>- 1</td></td>	674         0         (s)         0 <td></td> <td>1567</td> <td><b>&gt;</b> C</td> <td>o c</td> <td>0 0</td> <td>0</td> <td><b>-</b></td> <td><b>&gt;</b> &lt;</td> <td><b>-</b></td> <td>- 0</td> <td>186</td> <td>۲,</td> <td>257</td> <td>258</td> <td>- 1</td>		1567	<b>&gt;</b> C	o c	0 0	0	<b>-</b>	<b>&gt;</b> <	<b>-</b>	- 0	186	۲,	257	258	- 1
0         (s)	0         (s)         0         (s)         0         (s)         0         (s)         0         0         10 <td></td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td><b>-</b></td> <td>o c</td> <td>o c</td> <td><b>-</b></td> <td><b>-</b></td> <td></td> <td>/95,1</td> <td><b>э</b></td>			0	0	0	0	0	<b>-</b>	o c	o c	<b>-</b>	<b>-</b>		/95,1	<b>э</b>
0         0         0         0         0         0         0         0         0         0         0         0         125	0         0         0         0         0         0         0         125         0         125         0         0         0         0         0         0         0         0         0         0         0         125         0         125         0         125         0 <th< td=""><td></td><td></td><td>0</td><td></td><td>0</td><td>0</td><td>0</td><td></td><td>0</td><td>0</td><td>0</td><td>÷ 5</td><td>9 5</td><td>4/0</td><td>(6)</td></th<>			0		0	0	0		0	0	0	÷ 5	9 5	4/0	(6)
81,343         1,436         5,383         294         439         29         0         198         360         1         169         6,309         89,652           0         0         0         0         0         0         0         0         0         0         967         9	81,343         1,436         5,383         294         439         29         0         198         360         1         169         8,309           0	***************************************	0	0	125	0	0	0	0	0	0	0	0	125	125	2
0         0	0         0         0         0         0         0         0         0         295         512         967           1         0         28         998         0         1,078         0	***************************************	81,343	1,436	5,383	294	439	හ	0	198	360	-	169	8,309	89,652	493
5,635         (s)         (s) </td <td>5,635         (s)         (s)<!--</td--><td>90</td><td></td><td>၀ ဗ</td><td>0 8</td><td>100 c</td><td>0 6</td><td>00</td><td>0</td><td>0 8</td><td>0</td><td>295</td><td>512</td><td>967</td><td>967</td><td>S.</td></td>	5,635         (s)         (s) </td <td>90</td> <td></td> <td>၀ ဗ</td> <td>0 8</td> <td>100 c</td> <td>0 6</td> <td>00</td> <td>0</td> <td>0 8</td> <td>0</td> <td>295</td> <td>512</td> <td>967</td> <td>967</td> <td>S.</td>	90		၀ ဗ	0 8	100 c	0 6	00	0	0 8	0	295	512	967	967	S.
360         0	360         0				966	00	0/0'r	381	<b>5</b> C	gg C	<b>-</b>	<b>-</b>	8 0	2,492	2,492	4 6
360         0	360         0				0	0	0	3	· c	c	654	· c	0 0	9 9 9 2 9	0,930 654	
0         0         0         262         0         634	0         0         0         262         0         634           0         0         0         0         0         634         0         634           0         0         0         0         0         0         0         1,317         0         1,317           0         0         0         0         0         0         0         0         1,317         0         1,317           0         0         0         0         0         0         0         0         0         0         0         0           28,112         0         266         291         127         171         0         (s)         0         16         16         0           0         0         0         0         0         0         0         16         16         1437           2,759         0         1,088         0         0         0         0         0         0         0         0         0           15,784         0         0         0         0         0         0         0         0         0         0         0           15,784         0<	c of China		0	0	0	0	0	0	0	0	0	0	3	390	* ~
0         0         0         0         0         1,317         4,27 <td>0         0         0         0         0         0         1,317         0         1,317           0</td> <td>***************************************</td> <td>0</td> <td>٥</td> <td>373</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>262</td> <td>0</td> <td>0</td> <td>634</td> <td>634</td> <td>163</td>	0         0         0         0         0         0         1,317         0         1,317           0	***************************************	0	٥	373	0	0	0	0	0	262	0	0	634	634	163
0         0	0         18         427           2.28,112         0         26         291         127         171         0         0         0         0         156         426         1,437           0         0         0         0         0         0         0         156         426         1,437           2,756         0	***************************************	0	0	0	0	0	0	0	0	0	1.317	0	1,317	1,317	7
0         0         218         0         190         0         0         0         18         427 <th< td=""><td>0         0         218         0         0         0         0         190         0         0         18         427           26,137         0         0         0         0         0         0         0         16</td><td>***************************************</td><td><b>.</b></td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></th<>	0         0         218         0         0         0         0         190         0         0         18         427           26,137         0         0         0         0         0         0         0         16	***************************************	<b>.</b>	0	0	0	0	0	0	0	0	0	0	0	0	0
28,137         0         0         0         0         0         16         6,153           28,112         0         266         291         127         171         0         (s)         0         156         426         1437         29,550           2,758         0         0         0         0         0         0         0         0         0         0         2,758         0         2,758         0         2,758         0         0         2,758         0         1,464         2,017         0         0         0         0         0         0         0         0         0         0	2.5.17         0         0         0         0         0         0         16 <td>-</td> <td>O C</td> <td>0 0</td> <td>218</td> <td>ဝ</td> <td>۰ ۵</td> <td>190</td> <td>0 (</td> <td>0</td> <td>0</td> <td>0</td> <td>Ω.</td> <td>427</td> <td>457</td> <td>~</td>	-	O C	0 0	218	ဝ	۰ ۵	190	0 (	0	0	0	Ω.	427	457	~
20,112         0         350         426         1437         29,550           2,756         0         3,638         0         0         0         0         335         256         235         4,464         4,464           2,756         0         0         0         0         0         0         0         0         0         2,758           15,784         0         4,598         18         0         6         12         0         203         136         1,444         2,017           149,499         1,463         21,527         764         2,800         1,445         6         903         3,314         3,225         3,815         39,562         189,760           320,800         2,819         26,220         1,432         3,792         1,665         6         956         11,919         5,121         6,785         60,715         381,515	2,156         0         3,638         0         1,56         426         1,437           2,756         0         3,638         0         0         0         0         335         255         235         4,644           15,784         0		00.10	ه د	ם מ	5	) ا	<b>-</b> (	<b>-</b> (		۰ (	0 !	9	9	6,153	쭚
2,756         0 <td>2,758         0<td></td><td>211,02</td><td><b>o</b> c</td><td>007</td><td>187</td><td>77</td><td><u> </u></td><td><b>-</b></td><td></td><td><b>-</b> 2</td><td>126</td><td>426 70 70</td><td>1,437</td><td>29,550</td><td>162</td></td>	2,758         0 <td></td> <td>211,02</td> <td><b>o</b> c</td> <td>007</td> <td>187</td> <td>77</td> <td><u> </u></td> <td><b>-</b></td> <td></td> <td><b>-</b> 2</td> <td>126</td> <td>426 70 70</td> <td>1,437</td> <td>29,550</td> <td>162</td>		211,02	<b>o</b> c	007	187	77	<u> </u>	<b>-</b>		<b>-</b> 2	126	426 70 70	1,437	29,550	162
572         0         1,088         0         0         6         12         0         203         136         1,444         2,017           15.784         0         4,598         18         0         693         0         56         1,441         610         103         7,520         23,303           149,499         1,463         21,527         764         2,800         1,445         6         903         3,314         3,225         3,815         39,262         189,760           320,800         2,819         26,220         1,432         3,792         1,665         6         956         11,919         5,121         6,785         60,715         381,515	572         0         1,088         0         0         6         12         0         203         136         1,444           15,784         0         4,598         18         0         693         0         56         1,441         610         103         7,520           149,499         1,463         21,527         764         2,800         1,445         6         903         3,314         3,225         3,815         39,262           320,800         2,819         26,220         1,432         3,792         1,665         6         956         11,919         5,121         6,785         60,715         3,792		2.758	0 0	3	<b>.</b>	o c	<b>&gt;</b> c	> <	<b>-</b>	ر د	8 -	g c	404,	4,464	S ?
572         0         1,088         0         0         6         12         0         203         136         1,444         2,017           15,784         0         4,598         18         0         693         0         56         1,441         610         103         7,520         23,303           149,499         1,463         21,527         764         2,800         1,445         6         903         3,314         3,225         3,815         39,262         189,760           320,800         2,819         26,220         1,432         3,792         1,665         6         956         11,919         5,121         6,785         60,715         381,515	572         0         1,088         0         0         6         12         0         203         136         1,444           15,784         0         4,598         18         0         693         0         56         1,441         610         103         7,520           149,499         1,463         21,527         764         2,800         1,445         6         903         3,314         3,225         3,815         39,262           320,800         2,819         26,220         1,432         3,792         1,665         6         956         11,919         5,121         6,785         60,715         3,225		}	•	•	•	•	•	•	•	•	>	>	>	5,738	ū
15.784 0 4,598 18 0 693 0 56 1,441 610 103 7,520 23,303 149,499 1,463 21,527 764 2,800 1,445 6 903 3,314 3,225 3,815 39,262 189,760 320,800 2,819 26,220 1,432 3,792 1,665 6 956 11,919 5,121 6,785 60,715 381,515	15.784 0 4,598 18 0 693 0 56 1,441 610 103 7,520 1.48,499 1,463 21,527 764 2,800 1,445 6 903 3,314 3,225 3,815 39,262 320,800 2,819 26,220 1,432 3.792 1,665 6 956 11,919 5,121 6,785 60,715		572	0	1,088	0	0	0	9	12	0	203	136	1,444	2,017	1
149,499 1,463 21,527 764 2,800 1,445 6 903 3,314 3,225 3,815 39,262 189,760 320,800 2,819 26,220 1,432 3,792 1,665 6 956 11,919 5,121 6,785 60,715 381,515	149,499 1,463 21,527 764 2,800 1,445 6 903 3,314 3,225 3,815 39,262 320,800 2,819 26,220 1,432 3,792 1,665 6 956 11,919 5,121 6,785 60,715	misphere	15,784	0	4,598	18	0	693	0	99	1,441	610	103	7,520	23,303	128
2,819 26,220 1,432 3,792 1,665 6 956 11,919 5,121 6,785 60,715 381,515	2.819 26.220 1,432 3.792 1,665 6 956 11,919 5,121 6,785 60,715		149,499	1,463	21,527	764	2,800	1,445	φ	903	3,314	3,225	3,815	39,262	189,760	1,037
			320,800	2,819	26,220	1,432	3.792	1,665	ဖ	926	11,919	5.121	6.785	60.715	381.515	2.096

Table 19. Year-to-Date Imports Of Crude Oil and Petroleum Products by Source and PAD District, January - June 1984 (Thousand Barrels) (continued)

Source	Crude Oil 1	LPG	Unfin- ished Oils	Gasoline Blending Compo- nents	Finished Motor Gasoline	Jet Fuel	Kero- sene	Distit. Puel	Resid. Fuel Oil	Special Naphthas	Other Prod- ucts 2	Total Prod- ucts	Total Petro- leum	Total (Daily Average)
		3					PAD District IV	strict IV						
Other														
CanadaErance	5,939	2,453	00	0 0	340	0	0 (	647	88	က	670	4,201	10,140	29
Other Eastern Hemisphere	0	0	0	- 0	<b>&gt;</b> c	<b>)</b> C	0 0	0 0	0 0	0 0	00	00	00	00
Subtotal Other	5,939	2,453	0	0	340	0	0	647	8 8	. n	670	4,201	10,140	20 05
Total Imports	5,939	2,453	O	0	340	0	0	647	88	ო	670	4,201	10,140	95
÷							PAD District V	strict V						
Arab OPEC														
Algeria	934	0 (	253	0	0	0	0	0	0	0	0	253	1,187	7
Hotel Arab Emirator	<b>-</b>	0 0	252	0 0	0 (	0 (	0	0	0	0	0	525	252	-
Subtotal Arab OPEC	934	0 0	774	<b>&gt;</b> C	<b>-</b>	<b>-</b>	<b>&gt;</b> C	o c	<b>-</b>	00	0 0	1 2 2 3	569	- (
	)	J	:	,	<b>&gt;</b>	>	>	>	>	>	>	± .	/0/'1	ת
Other OPEC Ecuador	360	0	0	O	٥	0	0	0	0	0	0	0	360	^
Indonesia	27,048	0	1,559	0	913	128	٥	266	1,239	467	_	4.574	31,623	174
Venezuela	413	0	0	0	246	0	0	0	0	0	0	246	629	4
Subtotal Other OPEC	27,821	0	1,559	0	1,159	128	0	566	1,239	467	-	4,821	32,642	179
Other														
Australia	2,788	96	0		311	36	0	29	87	0	(s)	596	3,384	19
Bringi	<b>&gt;</b> c	<b>D</b> (	0 (		0 (	0 (	0 (	φ.	0	0	0	0	0	0
Canada	5.288	2 677	2 t		0 400	<b>)</b> 0		o ;	1 🔾	0 5	0 9	0 ;	0	0 ;
France	9	20,7	3		ĝ	0 0	(S)	4.	~ 0	08. 0	•	3,998	9,287	51
Malaysia	0	• •	0	c	158	9 1	<b>-</b>	- ç	> g	- 0	(S)	(S)	(s)	<u>(S</u>
Mexico	0	36	0		?	- 0	•	3 5	8 8	o c	7	\$ £	20 t	٧ -
Netherlands	0	(s)	0		0	0	0	0	9	· c	: =	(3)	9	- હ
Netherlands Antilles	0	٥	0		0	4	0	0	192	0	67	299	588	(
Norway	0	0	0		0	0	0	0	0	0	0	0	0	0
People's Republic of China	0	0	321	3,70	289	0	0	0	0	347	က	4,974	4,974	27
Puerto Rico	0	0	0	0	0	0	0	239	0	0	ଝ	288	288	8
Homania	0 (	0	0	222	0	0	0	0	о	0	0	222	222	
United Kingdom	o ;	o ;	0 !	0	0	0	0	0	0	(s)	0	(s)	(s)	(s)
Subtotal Other	1,404 9,481	(s) 2,809	1,200	215 4,141	589 2,542	244 244	0 (9)	137 587	1,073	81 557	802 982	3,795 14,560	5,199 24,040	82 82 83 83 84 84 84 84 84 84 84 84 84 84 84 84 84
												1	1	!
Total Imports	38,235	2,809	3,533	4,141	3,702	372	(s)	853	2,737	1,023	983	20,154	58,389	321

Includes crude oil imported for storage in the Strategic Petroleum Reserve.
 includes aviation gasoline, waxes, asphalt, Iubricants, pentanes plus, naphthas less than 400 degrees F, other oils greater than 400 degrees F and miscellaneous products.
 (S) = Less than 500 barrels or less than 500 barrels per day.
 Note: Total may not equal sum of components due to independent rounding.
 Sources: See Explanatory Notes on Data Collection and Estimation.

Table 20. Exports of Crude Oil and Petroleum Products by PAD District, June 1984 (Thousand Barrels)

		Petroleur	Petroleum Administration for Defense Districts	for Defense	Districts	
Continoany	-	=	III	۱۸	>	Total
Crude Oil (including lease condensate) 1	Q	428	0	0	6.237	6,665
Natural Gas Liquids	91	525	931	0	186	1.657
Pentanes Plus	0	62	0	0	0	79
Liquefied Petroleum Gases	16	446	931	0	186	1,579
Ethane	(S)	157	0	0	0	157
Propane	<b>a</b> o	132	962	0	74	1,010
Normal Butane	<b>œ</b>	79	135	0	112	333
Isobutane	0	79	0	0	٥	42
Finished Motor Gasoline	28	0	92	0	381	514
Naphtha-Type Jet Fuel	0	Φ	81	0	٥	8
Kerosene-Type Jet Fuel	0	0	155	0	36	191
Kerosene	4	0	_	0	(8)	9
Distillate Fuel Oil	81	0	472	0	1,114	1,589
Residual Fuel Oil	0	0	1,106	0	4,169	5,275
Naphtha < 400 Deg. for Petrochem. Feedstock	49	ω	114	-	39	211
Other Oils > 400 Deg. for Petrochem. Feedstock	***	45	740	0	59	841
Special Naphthas	9	ო	39	0	243	291
Lubricants	152	8	216	-	92	476
Waxes	4	(s)	ଝ	0	4	37
Petroleum Coke	221	457	4,170	0	3,214	8,062
Asphalt	2	-	(s)	<del>,-</del>	(s)	4
Miscellaneous Products	4	7	4	<u>(s)</u>	m	83
Total Product Exports	527	1,069	8,134	က	9,526	19,259
Total Exports	527	1,497	8,134	ю	15,763	25,924

Exports of crude oil are prohibited by law. However, some crude oil is exchanged with Canada on a barrel for barrel basis, and crude oil is shipped to U.S. Territories (especially Puerto Rico and the Virgin Islands) to be refined there. The Statistical Tracking Systems count these exchanges and shipments as imports and exports.
 = Less than 500 barrels or less than 500 barrels per day.
 Note: Total may not equal sum of components due to independent rounding.
 Source: See Explanatory Notes on Data Collection and Estimation.

Table 21. Year-to-Date Exports Of Crude Oil And Petroleum Products By PAD District, January - June 1984 (Thousand Barrels)

Afternance		Petroleu	Petroleum Administration for Defense Districts	for Defense	Districts	;
(Continued in the Continued in the Conti	-	=	Ħ	N	^	Total
Crude Oil (including lease condensate) 1	0	2.624	(s)	0	33,369	35,993
Natural Gas Liquids	213	3.305	4.460	(8)	1.037	9.016
Pentanes Plus	0	493	0	0	0	493
Liquefied Petroleum Gases	213	2,812	4,460	· (S)	1,037	8,523
Ethane	(8)	986	<u>(8)</u>	0	0	986
Propare	95	831	3,536	(S)	416	4,876
Normal Butane	121	502	924	ŝ	621	2,168
Isobutane	0	493	0	0	0	493
Finished Motor Gasoline	131	4	292	0	464	891
Naphtha-Type Jet Fuel	(s)	0	175	0	0	175
Kerosene-Type Jet Fuel	176	139	156	0	539	269
Kerosene	14	0	2	0	(S)	17
Distillate Fuel Oil	417	56	2,335	(S)	5,725	8,533
Hesidual Fuel Oil	433	0	10,799	0	17,681	28,913
Naphtha < 400 Deg. for Petrochem. Feedstock	357	83	726	g	150	1,292
Other Oils > 400 Deg. for Petrochem. Feedstock	8	131	2,627	0	263	3,022
Special Naphthas	4	29	190	m	247	546
Lubricants	752	171	1,878	7	277	3,092
Waxes	28	က	177	0	23	230
Petroleum Coke	1,356	1,183	20,606	4	14,213	37,362
Asphalt	4	12	12	ო	5	20
Miscellaneous Products	91		8	S	18	180
Total Product Exports	4,023	5,139	44,495	23	40,407	94,087
Total Exports	4,023	7,763	44,495	23	73,776	130,080

Texports of crude oil are prohibited by law. However, some crude oil is exchanged with Canada on a barrel for barrel basis, and crude oil is shipped to U.S. Territories (especially Puerto Rico and the Virgin Islands) to be refined there. The Statistical Tracking Systems count these exchanges and shipments as imports and exports.

(S) = Less than 500 barrels or less than 500 barrels per day.

Note: Total may not equal sum of components the to independent rounding.

Sources: See Explanatory Notes on Data Collection and Estimation.

Table 22. Exports of Crude Oil and Petroleum Products by Destination, June 1984 (Thousand Barrels)

Destination	Crude Oil 1	D-G	Finished Motor Gasoline	Jet Fuel	Dist. Oil	Residual Fuel Oil	Special Naphthas	Lubri- cants	Waxes	Petro- leum Coke	Asphalt	Other2	Total	Total (Daily Average)
Arrentina	C	0	0	155	0		0	14	(S)	(s)	0	159	329	=
Australia	0	က	<u>s</u>	0	0	0	ß	14	(S)	126	(s)	83	171	9
Bahamas	0 (	<u>®</u>	~ €	0 0	0 0	00		N غ	0 0	0 0	0 0	(s) (s)	т (	ر ا
Bahrain P. Limberton	<b>&gt; C</b>	5 <del>-</del>	-	o c	o C	<b>c</b>	2	£		79.	) (S)	<u> </u>	(°) 796	(6)
Brazil	0	- 0	0	0	0	0	(s)		(S)	,0	0	8	e e	(s)
Cameroon	0	0	0		0	o	0	(s)	0	0	0	(s)	(s)	(s)
Canada	428	447	25	(S)	र :	19	9	74		624	~	152	1,827	9
Chile	0 (	0	46	<u>,</u>	125	ਲ ਨ	0	<u>ლ</u> წ	જ ઉ	Ø 9	<u>©</u> (	(S)	219	<b>~</b> {
China (Taiwan)	00	(e)	<b>&gt;</b> c	> <	<u> </u>	cha't	<u>.</u>	2 "	(E)	2	(S)	N 6	رن' د	25. *
Colombia	<b>&gt;</b> C	S	0	0 0	0	0	o 60	<b>4</b>	_	° 8	(S)	<b>7</b> +	3 E	
Deomark	0		0	0	0	0	0	· ②	(S)	0	0	(s)	3 -	(S)
Dominican Republic	0	24	0	0	0	0	0	27	<u>(S</u>	0	0	(S)	23	·-
Ecuador	0	20	0 1	0 (	0 (	0 (	0	<b>-</b> '	<u>©</u> :	0 (	જ જ	<u>@</u> (	5	8
Egypt	0	۰,	<b>&gt;</b> C	<b>&gt;</b> c	<b>-</b>	00	<b>-</b>	o c	<u>(s)</u>	<b>&gt;</b> C	<b>5</b> 6	(S)	υţ	© (
El Salvador	<b>o</b> c	- c	o c	<b>-</b>	<b>o</b> c	<b>5 6</b>	<u>.</u>	» @	ر ق	<b>&gt;</b> C	<b>5</b> C	- 9	2 ₹	2 8
Finland	o c	0 0	0	0	0	0	0	5	-	1.006		17	1.180	£
Franch Pacific lef	0	0	0	0	0	350	0	(S)	0	0	0	0	320	2 22
Ghana	0	0	0	0	0	0	0	0	0	0	0	<u>(S</u>	8	<u>(8</u>
Greece	0	0	0	0	0	0	0	(s)	0	0	0		(S)	<u></u>
Gratemala	0	59	0	0	0	0	N	က	(s)	0	0	(s)	8	2
Guinea	0			0	0	115	0		0	0	0	(s)	116	4
Honduras	0	<u>(s)</u>	(s)	0	0	0	<b>,</b>	<b>o</b>	0	0	0	-	Ξ'	<u>@</u>
Hong Kong	0	0	0 +	0	0 (	ο (	(s)	<del>-</del> (	જ જ	0 (	જ જ	હ	CV 6	<b>6</b> (
India	0 1	ο (	0 (	0		0	<b>5</b> 6	<u>.</u>	<b>&gt;</b>	<b>&gt;</b> 0	⊃ §	<b>.</b>	r ;	<u> </u>
indonesia	0	<b>-</b>	<b>-</b>	<b>-</b>	2	ָ כ	0	n c	<b>-</b>	-	ે (	0 0		(e)
ran	<b>o</b> c		o c	<b>-</b>	o c	0	§	હ	(8)	0	0	(S)	- د	<u>(s</u>
trate	o c	<u> </u>	0	0	ે હ	0	0	-	-	1,229	0	211		, 84
lyon Coast	0		0	0	51	0	0	<u>s</u>	0	0	(s)	0	51	2
Jamaica	0	31	0	0	0	220	(s)	16	0	0	0	-	<b>568</b>	G.
Japan	0	0	0	0	528	1,300	259	4	N 4	2,270	<u>s</u>	27	4,431	148
Jordan	0	0	0 (	0 (	0 (	0 (	0 (	r- L	> •	⊃ ເ	<b>-</b>	⊃ <u>7</u>		(s)
Korea, Republic of	0 0	- (	<b>)</b>	<b>&gt;</b> c	<b>&gt;</b> C	2	ē)	0 0	- c	(3)	0 0	5 =	2 ~	S (S)
Kuwait	o c	0	<u> </u>	0 0	0 0	0	0	1 —	0	0	0	0	ı <del>-</del>	(S)
I there	0	0	0	0	0	0	0	0	0	0	0	٥	0	0
Malavsia	0	0	0	0	0	0	0	(3)	(s)	0	s)	Œ.	-	(s)
Mexico	0	825	4	36	0	0	-	5	က	20	0	0	80	33
Netherlands	0	-	0	0	0	0	თ -	<u>©</u>	જી	652	<u>(</u>		250	24
Netherlands Antilles	0	<u>(s)</u>	0	2	54 1	209	0 (	<u>.</u> ج	0	O {	<b>5</b>	<u>آ</u>	218	/!
New Zealand	0 1	@ @	377	0 0	107	0 0	) c	- 9	2	2	<u> </u>	€ (2)	9 6	o (s)
Nicaragua	<b>&gt;</b> c	<b>-</b>		<b>o</b> c	o c	o c	າ ⊂		ହ		0	-	o vo	્દ
Nogera	o c	0 0	0	0	0	0	0	(S)		162	0	(8)	162	S
Pacific Trist Terr.	0	) (s)	0	0	0	0	0	(S)	0	0	0	(s)	(s)	(s)
Panama	0	. 28	0	0	583 783	531	(8)	o	(s)	16	0	<u>(s)</u>	874	£ 53
Peru	0	0	0	0	0	0 (	ত :	2 1	۰ 3	0 0	0 0	® (0	~ c	@ E
Philippines	ه ک	<b>5</b> 0	<b>&gt;</b> C	<b>&gt;</b> 0	⊃ ອ	<b>5</b> C	ē.	- 5	(S)	> ⊂	د (ق	1 =	506	17
Puerto Rico	465	<b>x</b>	<b>-</b>	0 0	D E	> <	- c	9 <u>4</u>	u ec	0 0	<u> </u>	: -	24	-
hep, or south Airica	>	>	>	,	(-)	,	,				;			

Table 22. Exports of Crude Oil and Petroleum Products by Destination, June 1984 (Thousand Barrels) (continued)

í			Finished	to!		Residual	Special	- thri		Petro-				Total
Destination	Sude 1 t	LPG	Motor Gasoline	Fuel	<u></u>	<u>a</u> 5	Naphthas	cants	Waxes	Peum Coke	Asphalt	Other2	Total	(Daily
Saudi Arabia	0	4	0	0		0	0	₽	<u>છ</u>	0	0	E	12	- Average
Singapore	0	7	0	0	5	344	4	48	(3)	0	(8)	4	507	17
Spain	0	٥	0	0	0	0	0	_	(s)	391		59	451	4
Surinam	0	0	0	0	0	0	0	(S)	0	0	0	(S)	(s)	(S)
Sweden	0	0	0	0	0	0	0	2	(S)	287	(s)		289	2
Swizerland	0	0	0	0	0	0	0	<u>(S</u>	<u>(S</u>	0	0	(s)	(9)	(S)
Inailand	0	0	ဇ္တ	0	0	0	0	Ċ	0	0	0	(S)	33	;
Innidad and Tobago	0	4	٥	0	0	0	0	,	0	0	0	9	42	_
Turkey	0	0	0	0	<u>(S</u>	0	0	9	(9)	92	0		8	2
United Arab Emirates	0	<u>(s)</u>	0	0	0	0	(s)	<del>[</del>	0	3	0	16	23	2
United Kingdom	0	<del>,</del>	0	0	•	0	(s)	-	(s)	(s)	<b>(s)</b>	ო	7	(S)
U.S.S.H.	٥	0	0	o	0	0		35	0	0	•	0	32	-
Unguay	0	0	0	0	0	0	٥	-	0	0	0	(s)	-	S
Venezuela		37	0	0	0	0		Ø	(S)	114	C	(S	153	ľ
Virgin Islands	4,841	<u>(S</u>	0	0	0	372		(s)		0	0	)	5.213	174
West Germany		0	0	0	0	0	o	<b>N</b>		R	c	8	7,7	7
Yugoslavia		0	0	0	0	0		(8)	0	55	٥	(8)	i Kr	
Other	931	6	(s)	0	0	0		9	(s)	8	0	52	1.092	1 65
Total	6,665	1,579	514	272	1,589	5,275		476	37	8,062	4	1,159	25,924	86.

1 Exports of crude oil are prohibited by law. However, some crude oil is exchanged with Canada on a barrel to barrel basis, and crude oil is shipped to U.S. Territories (especially Puerto Rico and the Virgin Islands) to be refined there. The Statistical Tracking Systems count these exchanges and shipments as imports and exports. Includes pentanes plus, kerosene, naphtha less than 400 degrees F and miscellaneous products. than 400 degrees F and miscellaneous products.

(s) = Less than 600 barrels of less than 500 barrels per day. Note: Total may not equal sum of components due to independent rounding. Source: See Explanatory Notes on Data Collection and Estimation.

Table 23. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January - June 1984 (Thousand Barrels) (continued)

		_	1 1 1 1 1		i								İ	
Destination	Crude	-	Motor	Jet J	15 g	Hesidual Firet	Special	Lubri	th faces	Petro-	4-44		,	Total
	Ö	ย	Gasofine	Fue	ō	ō	Naphthas	cants	Waxes	E 46	Aspnalt	Claera	lotal	(Daily
Saudi Arabia	0	49	0	-	V	c	9	000	3	T COXE	ľ			Average)
Singapore	<b>c</b>	5	•		9	, i	2	07	5	>	Þ	22	ଚ୍ଚ	<b>,</b>
Spain	•	ī	ه د	•	2	1,365	14	9	(S)	٥	(S)	6	1.761	10
Sirinam	0	n (	۰ د	٠.	348	1,308	0	372	-	4.035	0	253	6352	2 6
	>	0	0	0	0	0	0	V.	<b>-</b>	ď		) ¥	1	}
Sweden	0	2	0	٥	c	_		a	3	3	• (	-	4	(s)
Switzerland	0	٥	_	•	•	•	3	٠ ٥	<u>a</u> :	314	(S)	4	330	2
Thailand	· c	3	6	0	ه د	<b>)</b> (	(2)	4	(S)	0	0	ო	6	(S)
Trinidad and Tobano	•	6	၇ (	5	•	<b>-</b>	-	36	(S)	(s)	0	62	129	-
Tirkey	0	<del>,</del> 3	ه د	9 '	(S)	0	S.	æ	(s)	P	(s)	-	261	-
The state of the s	۰ د	(8)	2	0	(S)	0	(S)	7~	(8)	302		174	444	- c
Office Alab Emirates	0	-	0	0	0	C	2	ä	Ç	5	•	:	1	5
United Kingdom	0	42	Ü	· c	, ,	7	2	2 9	5 (	<u> </u>	0	21	260	-
U.S.S.R.	· c	įc	ì	•	- (	200.	-• I	5	2	67	(S)	16	1,254	7
Unionay	•	3	0	0	، د	۰.	0	167	0	237	0	0	404	0
Venezisela	5	2	<b>&gt;</b> (	<b>3</b>	<b>5</b>	0	(S)	v	(S)	0	(s)	-	Œ	(3)
Virgin Islands	3 67	524	0 (	0	0	0	4	a	2	467	(S)	- 00	1013	ų L
West Company	10,03	1	<b>&gt;</b> (	<b>-</b>	0	2,864	0	(S)	٥		0	<u>v</u>	26 689	147
Viscolatio	o (	(s)	0	0	0	0	(S)	94	12		<u>v</u>	e E	959	•
- ugosiavia	>	0	0	0	0	0	0	(v)	(0)	27.	ì	3	3 :	7 (
Ciner	٥	0	0	0	0	c	· c	2	<u> </u>		> 0	(s)	341	24
Total	35,993	8 523	108	770	0 500	2	į	9	•	>	>	0	٥	0
			3	1	2000	516,02	546	3,092	230	37,362	않	5,004	130,080	715
1 Exports of crude oil are prohibited by law	rohibited by	law. However	Ι.	i lio obit	Some cride of is exchanged	Appe Parith								

1 Exports of crude oil are prohibited by law. However, some crude oil is exchanged with Canada on a barrel for barrel basis, and crude oil is shipped to U.S. Territories (especially Puerto Rico and the Virgin Islands) to be refined there. The Statistical Tracking Systems count these exchanges and shipments as imports and exports.

Includes pentanes plus, kerosene, naphtha less than 400 degrees F, other oils greater than 400 degrees F and miscallaneous products.

(S) = Less than 500 barrels or less than 500 barrels per day.

Note: Total may not equal sum of components due to independent rounding.

Sources: See Explanatory Notes on Data Collection and Estimation.

Table 24. Stocks of Crude Oil and Petroleum Products by PAD District, June 1984 (Thousand Barrels)

	United States	108,318 195,611 21,534 413,735 27,229 766,427	315,175 300,495 110,434 9,644 735,748	657 5,858 2,296 1,710	7,350 76,721 14,396 7,741 106,208	39 15,726 3,640 1,797 21,202
PAD	Dist. V West	26,432 1 26,230 1 1,639 0 4 27,229 81,530 7	66,038 3 24,517 3 4,986 1 146 95,687 7	16 7 5 23 51	671 989 0 123 1,783	00000
PAD		2,546 9,583 1,330 0 0 0 13,459	13,568 3,253 2,745 253 19,819	17 0 148 87 252	281 66 430 154 931	0 0 128 129
	Total	50,315 97,481 16,918 413,735 0 578,449	133,772 84,997 40,036 7,004 265,809	400 3,259 1,422 1,246 6,327	2,960 53,948 5,415 5,603 67,926	6 13,022 1,756 1,533
	New Mexico	111111	1,474	1 32	27	0 +
trict III	No. La., Ark.	11111	5,404	18 - 1	38	1   0
PAD District III	La. Gulf No. La., Coast Ark.	11111	44,780 	127 	1,824 	0 0
	Texas Gulf Coast	11111	72,238	138	922	6 
	Texas	11111	9,876 	106	151	0 1 107
	Total	15,433 60,912 1,589 0 0 77,934	60,897 80,917 36,630 1,988 180,432	208 2,566 721 341 3,836	2,755 20,526 7,338 1,645 32,264	10 2,704 1,756 263 4,733
=	Okla., Kans., Mo.		14,159	123 	579 _ 1,094	0   18
PAD District II	Minn., Wisc., Daks.	11111	7,329	98   18	164 	7
PA	Ind., III., Ky.	11111	38,464 	1   6	1,836	1   3
	Appa- lachi- an #2	11111	845 0		176	
_	Total	13,592 1,405 58 0 0 0 0	40,900 106,811 26,037 253 174,001	16 0 0 13 55	683 1,192 1,213 216 3,304	80008
PAD District	Appa- lachi- an #1	11111	2,967	11 1	1   1	
ΡĀ	East Coast	11111	37,933	.         6	669   1   185	1 1 33
	Commodity	Crude Oil (incl. lease condensate) Refinery Ank Farms and Pipelines Leases Strategic Petroleum Reserve1 Alaskan In-Transit	Total Stocks, All Oils (excl. Crude Oll) Refinery Bulk Terminal Pipeline Natural Gas Processing Plant	Pentanes Plus Refinery	Liquefied Petroleum Gases Refinery	Ethane Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total

See footnotes at end of table.

Table 24. Stocks of Crude Oil and Petroleum Products by PAD District, June 1984 (Thousand Barrels) (continued)

l_		PAD District I			A.	PAD District II	_				PAD Di	PAD District III			PAD	PAD	
	East Coast	Appa- lachi- an #1	Total	Appa- lachi- an #2	Ind.	Minn. Wisc. Daks.	Okla., Kans., Mo.	Total	Texas	Texas Gulf Coast	La. Gulf Coast	No. La., Ark.	New Mexico	Total	Hocky Mt.	West	United States
Propane for Petrochemical Feedstock Use ReineryTotalTotal	4	0	4 4	о П	٤ ا	0	- 1	82 82 82	~ 	-	15.	١	١	88	30	0.0	186 186
11111	153	ا يا ا	553 903 1,162 184 2,802	11 1	1,183	8 18 1	171	1,379 14,591 3,948 886 20,804	45   1   45   1   45   1   45   1   45   1   1	1,428	1,356	4 12 1	114	1,460 24,168 2,500 2,247 30,375	15 17 10 10 49	269 283 0 108 660	3,816 40,010 7,787 3,527 55,140
11	0	0	00	0	٥	1 24	0	24	9	, I	0	- 1	١	<b>ω</b> ω		0101	33
	1 1 1 1 S	8 0	270 270 51 80 414	115	345 	1 20 1	25     25	787 2,203 945 409 4,344	69 	705	175 	8	1 1 62 1	988 10,733 774 1,312	8 - 2 4 <u>4 5</u>	367 510 0 8 885	2,294 13,717 1,852 1,801
	0 %	0 0	0 0 0 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	, I I I	8     8   <sub>1</sub>	8 8	156	473 1,028 689 87 2,277	. 1 1 89	149	242 	თ ω 	,   <u>                                  </u>	438 6,025 385 511 7,359	80 to 8	33 196 0 7 236	976 7,268 1.117 616
ohoi	95	0	92	о 	136	١	- 1	137	١	<b>8</b> Ⅰ	1	0	١	8 S	00	NN	330
finished Oils leftnery Waphthas and Lighter Gas Oils Heavy Gas Oils Heavy Gas Oils	4,378 1,495 5,667 2,605 14,145	310 9 287 210 816	4,688 1,504 5,954 2,815 14,961	35 0 103 139	2,839 2,087 3,834 2,895 11,655	113 3 668 28 812	1,151 429 1,849 1,290 4,719	4,138 2,519 6,454 4,214 17,325	836 581 803 536 2,756	7,642 5,464 9,668 5,343 28,117	5,343 1,945 6,801 3,811 17,900	259 56 128 30 473	25 5. 180 6 216	14,105 8,051 17,580 9,726 49,462	559 612 813 735 2,719	5,393 3,644 11,800 5,477 26,314	28,883 16,330 42,601 22,967 110,781

See footnotes at end of table.

Table 24. Stocks of Crude Oil and Petroleum Products by PAD District, June 1984 (Thousand Barrels) (continued)

	ă	PAD District 1			PA	PAD District II	_			i de la companya de l	PAD District III	trict III			PAD	PAD	
Commodity	East	Appa- lachi- an #1	Total	Appa- lachi- an #2	Ind., III. Ky.	Minn. Wisc., Daks.	Okla., Kans., Mo.	Total	Texas	Texas Gulf Coast	La. Gulf No. La., Coast Ark.	No. La., Ark.	New Mexico	Total	Dist. IV Rocky Mt.	Dist. V West Coast	United States
Motor Gasoline Blending Components Refinery	5,349	ء ۱۱۱	5,452 84 0 5,536	8   1	4.807	8 111	1,453	6,988 185 7,175	1,397	9,551	5,675	<u> </u>	1 1 1	16,925 758 0 17,683	2,349 0 2,349	8,312 239 0 8,551	40,026 1,266 41,294
Aviation Gasoline Blending Components Refinery	F	0	==	١	١	1	88	156 156	١	۱	149	° I	0	149 149	00	<del>1 1</del>	327 327
Total Finished Môtor Gasoline Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total	5.061	328	5,389 42,649 15,736 24 63,798	8 0	6,807 	1,125	2,361	10,356 30,886 17,066 0 58,308	2,068	9,343	4,959     0   0	1,839	224	18,433 14,601 20,253 0 53,287	2,482 1,904 1,195 11 5,592	9,025 11,883 2,280 0 23,188	45,685 101,923 56,530 35 204,173
Finished Leaded Motor Gasoline Relinery Bulk Terminal Pipeline Natural Gas Processing Plant Total	1,810	22   1   0	2,034 20,443 6,706 14 29,197	, I I I	3,078	733	1,295	5,140 15,453 8,561 0 29,154	1,259	4,333 	1,563	668 1   1	1 1 1 1 0 1	7,937 8,049 7,960 0 23,946	1,626 1,189 772 8 3,595	4,095 5,758 931 0 10,784	20,832 50,892 24,930 22 96,676
Finished Unleaded Motor Gasoline Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total	3,251	1 1 1 0 1 ° 1	3,355 22,206 9,030 10 34,601	ر ا ا ا	3,729	385	1,066	5,216 15,433 8,505 0 29,154	8 1 1	5.010	3,396	1,175	106	10,496 6,552 12,293 0	856 715 423 3 1,997	4,930 6,125 1,349 0 12,404	24,853 51,031 31,600 13
Finished Aviation Gasoline Refinery	ž 0		34 449 0 0 483		8     1	0 0	1       4 O	109 332 91 0 532	109	0     <sup>583</sup>	152			554 77 10 74 715	ည် စဝ အ	240 295 37 0 572	972 1,165 147 74 2,358

Table 24. Stocks of Crude Oil and Petroleum Products by PAD District, June 1984 (Thousand Barrels) (continued)

PAD District 1 PAD District II	Commodity East Appa- Total lachi- III., Ky- Wisc., Kans., Coast an #1 an #2 III., Ky- Daks. Mo.	Naphthra-Type Jet Fuel     269     32     301     0     502     104     127       Bulk Terminal     405     -     -     -     -     -     -       Pipeline     -     -     -     -     -     -     -     -       Total     -     -     -     -     -     -     -     -	Refinery       912       0       912       26       1,311       159       159         Bulk Terminal       4,924       —       —       —       —       —       —         Pipeline       —	Refinely     252     87     339     0     373     44     347       Bulk Terminal     -     3,093     -     -     -     -     -       Pipeline     -     -     36     -     -     -     -       Natural Gas Processing Plant     0     0     0     0     0     0     0       Total     -     -     3,468     -     -     -     -	Distillate Fuel Oils       4,677       279       4,956       57       4,582       1,616       2,466         Bulk Terminal       —       —       29,295       —       —       —       —         Pipeline       —	Residual Fuel Oils       2,287       104       2,391       55       1,441       246       138         Bulk Terminal       —	Naphtha < 400 Deg. Petro. Feedstock	Other Oile > 400 Day Betry Eastehnot
	Total Texas	733 30 661 — 153 — 1,547 —	1,655 291 4,105 — 2,087 — 7,847 —	764 88 675 174 1,613	8,721 99 14,110 — 8,913 — 0 31,744 —	1,880 385 1,699 — 0 — 3,579 —	180 9	
	Texas Gulf Coast	306 704	91 2.928	88 520	996 8,470	85 3,964	90 839 90 839	
PAD District III	La. Gulf No. La., Coast Ark	316 184	2,934	594	4,004 567 	2,670 123	458 3 458 3	
	New Mexico	72 1 1 1	6 57	46 87	37 255 	23       1	33 0 33 0	
	Total	1,687 118 426 2,231	6.216 1.839 4.645 12,700	1,335 532 655 2,524	14,292 4,859 6,924 26,077	7,160 4,053 1 11,214	1,420	
PAD   PAD	Dist. IV Dist. V A V Nt. Coast		323 3,282 226 1,779 239 604 788 5,665	0 209 37 36 0 0 0 0 37 245	2,096 5,321 749 5,079 618 1,241 0 0 3,463 11,641	510 7,103 0 2,333 0 159 510 9,595	0 57 0	
_	United	3,882 1,687 1,337 6,906	+++0	2,647 4,373 865 2 2 7,887	35,386 54,092 23,388 2112,868	19,044 27,602 165 46,811	1,942	

Table 24. Stocks of Crude Oil and Petroleum Products by PAD District, June 1984 (Thousand Barrels) (continued)

	اها	PAD District 1	_		PA	PAD District II	=				PAD District III	trict III			PAD	PAD	
Commodity	East Coast	Appa- lachi- an #1	Totai	Appa- lachi- an #2	Ind., III., Ky.	Minn. Wisc., Daks.	Okla, Kans., Mo.	Total	Texas	Texas Gulf Coast	La. Gulf No. La., Coast Ark.		New Mexico	Total	Dist. IV Rocky Mt	Dist. V West	United States
Special Naphthas Refinery	88   1	27 0 	112 631 0 743		182	1	١ ، ١	353 154 0 507	72 - 88 -	1,169	67   0	144 - 0	1 1	1,419 62 68 1,549	ගටරහ	179 36 0 215	2,072 883 68 3,023
Lubricants Refinery Bulk Terminal	<sup>006</sup>	606   1	1,809 1,202 3,011	11	1 1 260	0	340	1,100 988 2,088	11	2,507	1.224	593		4,352 273 4,625	72 72 72	457 805 1,262	7,788 3,270 11,058
Waxes Refinery Total	ļ 4	87	91	0	37	١	1 50	57 57	<u>4</u>	- 202	128	- 47	0	391 391	00	2 2	593 593
Petroleum Coke Refinery Total	536 536	00	536 536	00	ZTZ TTS	999	143 143	1,086 1,086	00	295 295	728 728	206 206	00	1,229	174	1,533	4,558 4,558
Asphait and Road Oil Refinery	2,164	1 1 1	2,326 3,230 5,556	384	3,268	1,666	878	6,196 4,009 10,205	813	367	442	88	219	2,721 557 3,278	2,272 249 2,521	2,026 315 2,341	15,541 8,360 23,901
Miscellaneous Products Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total	195	6	214 114 19 0 347	0 0	108	8 O	11 1	126 21 85 234	38	1   523	t   0	90 2		763 61 285 9 1,118	20 - 01	134 224 180 0 538	1,244 422 569 12 2,247
Total Stocks, All Oils			189,056	ı	ı		1	258,366	1	1		Į.	1	844,258	33,278 1	77,217	33,278 177,217 1,502,175

Includes 33,879 thousand barrels of domestic crude oil.
 Source: See Explanatory Notes on Data Collection and Estimation.
 Not Applicable.

Table 25, Refinery and Bulk Terminal Stocks of Selected Petroleum Products by State, June 1984 (Thousand Barrels)

Molor   Molo	State	11444	Motor	Kerosene	פוים	1
138   138		Gasalina	Cachino		i 6	io i
2.4.77         25,561         3,4251         34,251         34,251         34,251         34,251         34,251         34,251         34,251         36,68         34,251         35,68         34,251         35,68         34,251         35,68         34,251         35,68         34,251         35,68         36,68         36,68         36,68         36,68         36,68         36,68         36,68         36,69         36,68         36,69 </td <td></td> <td>0.000</td> <td>Gesoure</td> <td></td> <td>5</td> <td>5</td>		0.000	Gesoure		5	5
1, 199   1	PAD District I Total	22.477	25 561	2 432	24 251	000
1,138   1,451   1,72   2,523     1,295   3,744   215   1,938     1,295   3,744   215   1,938     1,191   1,295   64   86   86     1,191   1,295   64   86   86     1,191   1,295   64   86   86     1,191   1,295   64   86   86     1,191   1,295   64   86   86     1,191   1,295   64   86   86     1,191   1,295   64   64   86     1,191   1,195   1,195   1,187     1,191   1,191   1,195   1,195     1,191   1,191   1,191   1,191     1,191   1,191   1,191   1,191     1,191   1,191   1,191   1,191     1,191   1,191   1,191   1,191     1,191   1,191   1,191   1,191     1,191   1,191   1,191   1,191     1,191   1,191   1,191   1,191     1,191   1,191   1,191   1,191     1,191   1,191   1,191   1,191     1,191   1,191   1,191   1,191     1,191   1,191   1,191   1,191     1,191   1,191   1,191   1,191     1,191   1,191   1,191   1,191     1,191   1,191   1,191   1,191     1,191   1,191   1,191   1,191     1,191   1,191   1,191   1,191     1,191   1,191   1,191   1,191     1,191   1,191   1,191   1,191     1,191   1,191	Connecticut	599	609	20	1,608	320
1.2905 3.744 215 1.538	Delaware, D.C., Maryland	1,138	1,451	172	2,623	1,756
1,291   1,571   88   965   84   84   865   84   84   84   84   84   84   84   8	Florida	2,905	3,744	215	1.938	1612
11   11   1.295   84   861     11   11   1.295   84   861     12   1.293   4.889   6.90     12   1.293   4.889   6.90     12   1.293   1.295   6.45     12   1.293   1.295   6.45     13   1.295   6.45   4.91     14   1.294   1.439   2.79     15   1.295   6.88   1.439     15   1.295   6.88   1.439     16   1.295   6.88   1.439     17   1.295   6.88   1.195     18   1.295   6.88   1.195     19   1.295   6.89     19   1.295   6.90     19   1.295   6.90     19   1.295   6.90     19   1.295   6.90     19   1.295   6.90     19   1.295   6.90     19   1.295   6.90     19   1.295   6.90     19   1.295   6.90     19   1.295   6.90     19   1.295   6.90     19   1.295   6.90     19   1.295   6.90     10	Georgia	1,291	1,571	88	996	353
113   1.295   49   2.091	Maine	418	256	84	861	720
State	Massachusetts	1,113	1,295	49	2,091	783
3,199		61	28	м	450	233
1,208		3,199	4,898	069	9,046	8.984
1,208   1,318   559   1,450	New York	4,794	2,713	338	4,917	3,201
2,682         3,925         545         4,329           1,872         463         w         788           867         954         206         766           1,872         1,757         382         2,198           1,873         20,583         20,649         1,439         2,198           1,873         4,599         235         2,198         4,515           1,066         877         1,107         1,467         1,467           1,066         877         1,107         1,467         1,467           1,066         877         1,10         1,467         1,467           1,066         877         1,10         1,467         1,467           1,066         877         1,0         1,467         1,467           1,066         877         1,0         1,467         1,467           1,066         877         1,0         1,467         1,467           1,066         877         1,0         1,467         1,467           1,066         877         1,0         1,467         1,467           1,066         877         1,0         1,467         1,467           1,1         1,1<	North Carolina	1,208	1,318	569	1.450	299
187    463	Pennsylvania	2,582	3,925	545	4.329	1 529
1,000	Rhode Island	187	463	3	788	66
1823   1,757   382   2,185	South Carolina	867	954	202	76.6	7,5
1         20,593         20,649         1,439         22,831         20,583         20,649         1,439         22,831         20,583         20,649         1,439         22,831         2,505         2,505         2,505         2,505         2,505         2,505         2,505         2,505         2,505         2,505         2,503         2,503         2,503         2,503         2,013         2,503         2,013         2,503         2,013         2,503         2,013         2,503         2,013         2,503         2,013	Virginia	1.823	1 757	383	8 5	7 0
1,056         20,543         20,543         1,439         22,831           3,670         4,599         1,439         22,831         4,515           7,026         6,897         1,171         2,653         4,515           1,026         6,897         1,171         1,467         1,167         1,167           1,026         1,287         1,10         1,167	West Virginia	292	243	12.	220	306
1         20,583         20,649         1,439         22,831           3,670         2,977         1,187         2,653           3,670         2,977         1,187         2,653           3,670         2,977         1,187         2,653           3,670         2,977         1,187         2,653           3,670         1,267         1,187         1,187           1,282         2,379         130         1,187           1,322         2,379         130         1,187           1,322         2,379         130         1,187           470         199         0         942           2,619         2,947         280         280           1,140         1,080         334         1,732           1,140         1,080         334         1,732           1,140         1,090         334         1,349           1,140         1,090         334         1,539           1,140         1,160         1,460         864           1,140         1,161         1,460         1,349           1,140         1,162         1,479         1,479           1,140         1,161						•
3,670     4,599     235     4,515       7,286     2,977     171     2,663       8,70     1,267     1,167     1,467       1,066     877     16     1,467       1,066     877     10     1,163       2,222     2,379     130     2,013       1,321     667     w     1,667       470     199     0     2,013       1,321     667     w     1,601       470     199     0     2,013       1,321     667     w     1,654       1,321     667     w     1,654       1,321     667     w     1,654       1,321     667     w     1,654       1,321     667     w     2,30       1,321     618     w     2,30       1,321     619     2,34     1,74       1,140     1,104     1,006     88     86       1,140     1,104     1,006     88     86       2,44     2,20     0     2,24       1,140     1,171     w     1,349       1,140     1,104     1,049     1,2,54       1,140     1,104     1,049     1,2,64       1,141<	PAD District II Total	20,593	20,649	1.439	22.831	3.579
3,023     2,977     171     2,653       1,066     688     w     1,187       1,066     687     f     1,467       1,066     687     f     1,187       1,187     1,187     1,187     1,187       1,187     1,187     1,187     1,187       1,187     1,187     1,187     1,187       1,19     2,419     0     942       2,619     2,947     280     2,380       1,140     1,066     88     654       1,115     1,171     w     1,349       1,115     1,171     w     1,349       1,191     2,108     1887     19,151       1,191     2,108     18     18,149       1,191     2,108     18     18,149       1,191     2,108     18     18,149       1,191     2,108     18     18,149       1,191     2,108     18     18,149       1,191     2,108     18     14,23       1,191     1,571     1,093     12,567       1,191     2,108     1,093     12,567       1,191     2,108     1,093     12,567       1,191     2,108     1,093     12,667	llinois	3.670	4,599	235	4515	989
1,066   877   16   1,187   1	Indiana	3.023	2 977	12	2,652	300
1,066   877   16   1,457   1,457   1,477   1,471   1,47	lowa	736	888	- 3	7,000	000
1,000	Kansas	90	3 2	\$ 4	). i	≩ ¦
1,227         110         1,163           1,321         667         w         1,63           1,321         667         w         1,63           470         199         0         203           2,619         2,947         280         2,350           1,035         900         334         1,732           1,140         1,006         88         854         1,732           1,145         1,006         88         854         1,732           1,140         1,006         88         854         1,732           1,140         1,006         88         854         1,732           1,140         1,171         w         261         867         882           205         1,171         w         261         874         261         1349         12,49         1349         12,54         228         14,99         14,238         12,54         228         12,54         228         12,54         228         12,567         12,567         12,567         12,567         12,567         12,567         12,567         12,567         12,567         12,567         12,567         12,567         12,567         12,567         <	Kontroku	9,00	100	9 :	1,40/	,,
1.232     2.379     130     2,013       1.231     667     w     1,801       1.231     667     w     565       1.249     3.34     1,302     2,013       1.349     2,947     280     2,380       1.035     900     334     1,732       1.035     900     334     1,732       1.035     900     334     1,732       1.140     1,006     88     864       1.141     1,006     88     864       1.140     1,006     88     864       1.141     1,171     w     261       1.1882     3,203     603     4,238       1.1882     3,203     603     4,238       1.191     2,108     13     0     423       1.151     10,528     1,093     12,567       1.571     37     2,845     423       1.751     10,528     1,093     12,567       1.571     1,77     0     287       1.571     3,26     w     1,111       1.571     443     288     w     1,111       1.674     2,845     1,77     0     243       1.674     2,56     1,57     0	**Chickers ************************************	0/0	/97'1	פרר	1.163	194
1,321   667   w   1,801     419   354   0   0     419   2,947   280   2,360     1,035   900   334   1,732     1,140   1,006   88   864     1,140   1,006   88   864     1,141   1,171   w   1,349     1,140   1,006   88   864     1,140   1,006   88   864     1,140   1,006   88   864     1,140   1,006   334   1,349     1,141   2,108   1,867   19,151     1,181   2,108   1,387   2,845     1,191   2,108   1,093   12,567     1,191   2,108   w   817     1,191   2,108   w   817     1,111   1,511   1,055   245   10,400     1,111   2,815   1,511   0   2,254     1,107   2,815   1,007   0   2,43     1,111   2,108   w   1,111     1,111   1,111   0   2,43     1,111   1,111   0   2,43     1,111   1,111   0   2,43     1,111   1,111   0   2,43     1,111   1,111   0   2,43     1,111   1,111   0   2,43     1,111   1,111   0   2,43     1,111   1,111   0   2,43     1,111   1,111   0   0     1,111   0   0   0		2,232	2,379	130	2,013	529
871         618         w         565           103         354         0         942           1105         354         0         942           1,140         1,005         394         1,732           1,140         1,005         384         1,732           1,140         1,006         88         864           1,115         1,171         w         1,349           1,115         1,171         w         261           205         17,048         1,867         19,151         1           1,191         2,104         w         261           205         17,5         w         261           1,191         2,104         1,349         12,567           1,191         2,104         1,349         12,567           1,191         2,104         1,349         12,567           1,191         2,104         1,052         1,093         12,567           1,1511         10,528         1,093         12,567           1,1511         1,571         37         2,845           1,77         4,79         0         227           264         1,31         0		1,321	299	*	1,801	287
470         199         0         230           2619         2,947         280         2,360           1,035         900         334         1,732           1,140         1,006         88         854           1,140         1,006         88         854           1,140         1,006         88         854           1,115         1,171         w         1,349           1,115         1,171         w         261           205         175         w         261           1,191         2,108         13         874           244         223         w         349           11,511         10,528         1,093         12,567           11,511         10,528         1,093         12,567           244         223         w         817           295         177         0         423           295         177         0         587           443         286         458         w         1,111           443         286         458         w         278           866         5,704         7521         137         2,264	Missoun	871	618	A	565	*
18     354     0     942       2,619     2,947     280     2,360       1,035     900     334     1,732       1,140     1,006     88     854       1,140     1,006     88     854       1,140     1,006     88     854       1,140     1,006     88     854       1,140     1,006     88     854       953     811     67     862       1,191     2,108     13     874       2,205     1,75     0     423       1,191     2,108     1,983     12,567       1,1511     10,528     1,093     12,567       1,571     37     2,845       775     479     0     423       1,571     37     2,845       1,77     0     587       866     458     w     1,111       461     4,58     w     1,111       461     4,521     13     0       286     1,704     7,521     137     5,704       461     4,521     1,11     0     2,845       461     4,521     1,11     0     2,845       473     2,845     1,77     0	Nebraska	470	199	0	230	0
2.519     2.947     280     2,360       1,035     900     334     1,732       1,116     1,006     88     864       1,115     1,171     w     1,349       1,115     1,171     w     261       205     175     w     261       205     175     w     261       1,191     2,108     1,349     12,349       1,191     2,108     13     874       205     175     w     261       1,191     2,108     1,093     12,567       1,191     2,108     1,093     12,567       1,571     37     2,845       775     479     0     227       2,845     1,77     0     227       2,845     1,77     0     287       2,845     1,77     0     287       2,845     1,77     0     227       2,845     1,77     0     287       2,845     1,77     0     287       2,845     1,77     0     243       1,87     2,845     1,111     443     288       2,704     7,521     1,37     2,564       2,704     1,667     w     2,26	North & South Dakota	419	354	0	942	3
1,035   900   334   1,732   1,140   1,006   88   844   1,171   1,140   1,106   88   844   1,171   1,191   1,191   1,191   1,191   1,191   1,191   1,191   1,191   1,191   1,191   1,191   1,191   1,191   1,191   1,191   1,193   1,2,567   1,193   1,2,567   1,193   1,2,567   1,193   1,2,567   1,193   1,2,567   1,193   1,2,567   1,193   1,2,567   1,193   1,2,567   1,193   1,	Ohio	2,619	2.947	280	2360	484
1,140	Oklahoma	1.035	906	334	1 732	177
1,115	Tennessee	1.140	1.006	8	854	164
15,986	Wisconsin	1,115	1,171	*	1,349	115
15,986						
963         811         67         862           205         175         w         261           1,191         2,108         13         4,238           1,191         2,108         13         874           244         223         w         349           11,511         10,528         1,093         12,567           11,511         10,528         1,093         12,567           12,677         479         0         423           264         131         0         227           264         131         0         227           615         326         w         817           866         458         w         791           443         288         w         1,11           443         288         w         1,11           286         174         0         243           286         174         0         243           187         2,18         w         1,11           286         1,74         7,521         137         5,390           287         2,18         w         1,48           893         729 <td>PAD District III Total</td> <td>15,986</td> <td>17,048</td> <td>1,867</td> <td>19,151</td> <td>11,213</td>	PAD District III Total	15,986	17,048	1,867	19,151	11,213
205     175     w     261       1,882     3,203     603     4,238       1,191     2,108     13     4,238       244     223     w     349       11,511     10,528     1,093     12,557       1,571     37     2,845       775     479     0     423       264     131     0     227       615     326     w     817       295     177     0     587       866     458     w     731       443     288     w     1,111       443     288     w     1,111       443     286     w     243       187     5,704     7,521     137     5,390       286     174     0     243       187     218     w     1,48       187     1,879     1,667     w     2,264	Alabama	923	811	29	862	879
1,882     3,203     603     4,238       1,191     2,108     13     874       244     223     w     349       1,511     10,528     1,093     12,567       1     775     479     0     423       284     131     0     227       295     177     0     587       866     458     w     791       443     288     w     1,111       444     458     w     1,111       445     7,521     137     5,390       286     174     0     243       187     218     w     1,48       187     218     w     148       187     1,667     w     2,264	Arkansas	202	175	ж	261	56
1,191     2,108     13     874       244     223     w     349       11,511     10,528     1,093     12,567       1     11,511     10,528     1,093     12,567       1     775     479     0     423       264     131     0     227       615     326     w     817       866     458     w     791       866     458     w     1,111       443     288     w     1,111       443     288     w     1,111       286     174     0     243       187     218     w     148       187     218     w     148       187     1,879     1,667     w     2,264	Coulsiana	1,882	3,203	603	4,238	3,969
1,511     10,528     w     349       11,511     10,528     1,093     12,567       1,511     10,528     1,093     12,567       1,511     1,571     37     2,845       1,75     479     0     423       264     131     0     227       264     131     0     227       866     458     w     791       866     458     w     1,111       443     286     w     1,111       443     286     w     1,111       443     286     w     1,111       444     7,521     137     5,390       286     174     0     243       187     218     w     1,48       187     1,879     1,667     w     2,264	Mississippi	1,191	2,108	13	874	468
11,511     10,528     1,093     12,567       775     479     0     423       264     131     0     423       264     131     0     423       264     131     0     227       265     177     0     587       866     458     w     791       443     288     w     1,111       461     458     w     1,111       461     458     w     276       286     174     0     243       286     174     0     243       187     218     w     148       187     218     w     148       187     1,667     w     2,264	New Mexico	244	223	3	349	87
1     2,815     1,571     37     2,845       775     479     0     423       264     131     0     423       615     326     w     817       295     177     0     587       458     w     791       443     288     w     1,111       443     458     w     1,111       444     458     w     276       5,704     7,521     137     5,390       286     174     0     243       187     218     w     148       187     1,667     w     2,264	Texas	11,511	10,528	1,093	12.567	5.823
1     2,815     1,571     37     2,845       775     479     0     423       264     131     0     227       615     326     w     817       295     177     0     587       458     458     w     791       443     288     w     1,111       444     4,521     137     5,390       286     174     0     243       187     218     w     148       187     218     w     148       187     1,667     w     2,264				1	į	
775         479         0         423           264         131         0         227           615         326         w         817           295         177         0         587           866         458         w         791           443         288         w         1,111           444         458         w         1,111           443         288         w         1,111           444         7,521         137         5,390           286         174         0         243           187         218         w         148           893         729         w         968           1,879         1,667         w         2,264	PAD District IV Total	2,815	1.571	37	2.845	510
264         131         0         227           615         326         w         817           295         177         0         587           866         458         w         791           443         288         w         1,111           444         458         w         276           5,704         7,521         137         5,390           286         174         0         243           187         218         w         148           187         218         w         968           1,879         1,667         w         2,264	Colorado	775	479	C	423	901
615     326     w     817       295     177     0     587       458     w     791       443     288     w     1,111       461     458     w     276       5,704     7,521     137     5,390       286     174     0     243       187     218     w     148       187     218     w     148       1893     729     w     966       148     1,667     w     2,264	Idaho	264	13		700	3
295     177     0     587       458     458     w     791       443     288     w     1,111       443     458     w     276       5,704     7,521     137     5,390       286     174     0     243       187     218     w     148       893     729     w     2,264       1,879     1,667     w     2,264	Montana	615	326	) š	817	9 6
9,853 11,055 245 10,400 443 288 w 1,111 441 458 w 1,111 451 458 w 276 5,704 7,521 137 5,390 286 174 0 243 187 218 w 148 187 218 w 148 1893 729 w 968	Utah	205	12.5	: <	202	à
9,853     11,055     245     10,400       443     288     w     1,111       461     458     w     276       5,704     7,521     137     5,390       286     174     0     243       187     218     w     148       187     218     w     148       1,667     w     2,264	Wynaina	230	771	<b>&gt;</b> ;	9 79	ZOZ.
9,853     11,055     245     10,400       443     288     w     1,111       461     458     w     276       5,704     7,521     137     5,390       286     174     0     243       187     218     w     148       893     729     w     2,264       1,667     w     2,264		000	4 0 0	<b>≯</b>	L6/	112
443     1,300       443     1,300       444     458     w       45704     7,521     137     5,390       286     174     0     243       187     218     w     148       1893     729     w     968       1,667     w     2,264	PAD District V Total	9.853	11 055	345	70707	000
461     458     w     1,111       461     458     w     276       5,704     7,521     137     5,390       286     174     0     243       187     218     w     148       893     729     w     968       1,879     1,667     w     2,264	Alaska	943	0000	24.7	00401	3,430
7521 137 5,390 270 7,521 137 5,390 270 286 174 0 243 243 218 w 148 983 729 w 2,264 7,571 1,879 1,667 w 2,264	Arizona	ĵ ţ	007	≱ ;		<b>≯</b> '
	Colifornia	- C	000	≱	2/6	5
	Laws:	2,704 400,00	120'/	13/	5,390	6,347
	Name of the state	82	174	0	243	3
	Meyada	187	218	*	148	3
1,879 1,667 w 2,264	Oregon	893	729	×	998	370
The state of the s	washington	1,879	1,667	}	2,264	1,555
	Inited States Tetal	100	40			

Withheld to avoid disclosure of individual company data.
 Source: See Explanatory Notes on Data Collection and Estimation.

Table 26. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, and Barge between PAD Districts, June 1984 (Thousand Barrels)

	4	From I to			From II to	호 호			From III to	<u>ء</u>		Ē	From IV to			From V to	2	
Commodity	II	111	^	_	=	<b>N</b>	>	_	=	≥	>	=	=	>	_	=	=	≥
Crude Oil (Tanker and Barge only)	රා	261	0	26	0	0	0	44	1,687	•	٥	•	c	c	2 923	642	10 105	9
Dotrology Droducte	8 803	40.5	c	9 750		9.031	270	22,500	27.07.0			1	) i	,	,	,	3	>
Pentanes Plus	0	0	0	;		<u>}</u>	ŧ -	0000	0,0,72	<b>5</b> C	8	1,724 93	915 C 6	1,278	0 0	0 (	ნ .	0
Liquefied Petroleum Gases	0	0	0	429	5,161	45	0	1,058	6.293	0	0	62.8	265	o c	> <	<b>-</b>	<b>-</b>	<b>&gt;</b> c
Unfinished Oils	0	0	0	0		0	844	130	40	0	0	ì	9 0	· c	· c	o c	o c	0 0
Motor Gasoline Blending Components	0	0	0	0		0	0	37	0	0	0	0	0	0	0	0	o c	0 0
Aviation Gasoline Blending Components	0	0	0	0		0	0	0	0	0	0	0	0	¢	· C	· c	· c	•
Finished Motor Gasoline	5,706	0	0	1,456		1,301	0	45,422	12,612	0	830	574	0	887	0	0	0 0	0 0
Finished Leaded Motor Gasoline	2,979	0	0	<del>4</del>		642	0	16,584	5,855	0	445	329	0	547	0	· c	<b>-</b>	o c
Finished Unleaded Motor Gasoline	2,727	0	0	972		629	0	28,838	6,757	0	445	215	0	340	0	· c		0
Finished Aviation Gasoline	15	0	0	0		55	0	274	173	0	0	0	0	0	0	· c	· c	•
Naphtha-Type Jet Fuel	121	æ	0	0		0	0	281	61	0	184	78	0	25	0	• =	· c	•
Kerosene-Type Jet Fuel	162	0	0	136		449	0	8,517	1,104	0	202	4	0	85	0	0	0 0	0 0
Kerosene	n	0	0	0		0	0	229	0	0	0	0	0	0	0	· c	· c	o c
Distillate Fuel Oil	2,809	0	0	310		214	0	14,916	5,617	0	363	358	0	247	0	0	· c	· c
Residual Fuel Oil	0	0	0	35		0	0	1,640	-	0	0	0	0	0	0	0	0	0
Feedstock	34	0	0	17	c	_	<b>C</b>	σ	4	_	c	c	c	c	c	ć	•	(
Special Naphthas	0	0	0	0	.0	0	0	147	120	• •	• •	· c	• =	o c	<b>-</b>	<b>-</b>	<b>&gt;</b> c	<b>&gt;</b> c
Lubricants	0	148	0	35	83	0	0	642	475	0	2	0	٥	0		· c	8	9 0
Waxes	0	0	0	0	0	0	0	10	0	0	0	0	0	o	0	· c	? <	<b>&gt;</b> C
Asphalt and Road Oil	0	120	0	116	0	0	0	183	509	0	0	0	0	0	0	• •	· -	0 0
Miscellaneous Products	43	20	0	225	37	0	0	105	0	0	0	0	0	0	Q	0	, E	0
Total All Products	8,902	999	0	2,785	8,665	2,031	844	74,044	29,563	0	1,648	1,724	915	1,278	2,923	642	12,199	0

Table 27. Movements of Petroleum Products by Pipeline between PAD Districts, June 1984 (Thousand Barrels)

- Albert America	From I to	t to		From II to			From III to	± 10		ш,	From IV to		Fron	From V to	
Supplimino)	=	Ξ		Ξ	2	_	=	2	>	=	Ħ	>	=	2	1
															ı
Pentanes Plus	0	0	S		0		852	0	0	83	150	0	0		0
Liquefied Petroleum Gases	0	0	426		45		6,293	0	0	627	765	0	0		0
Motor Gasoline Blending Components	0	٥			0		0	0	٥	0	0	d	0		0
Aviation Gasoline Blending Components	0	0	٥		0		0	0	0	0	0	0	0		0
Finished Motor Gasoline	4,379	0	1,219		1,301	٠.	11,968	0	830	574	0	887	0		0
Finished Leaded Motor Gasoline	2,227	0	40		642	•	5,561	0	445	329	0	547	0		0
Finished Unleaded Motor Gasoline	2,152	0	818		629	•••	6,407	0	445	215	0	340	0		0
Finished Aviation Gasoline	15	0			22		110	0	0	0	0	0	0		0
Naphtha-Type Jet Fuel	0	٥			0		61	0	₹	82	0	25	0		0
Kerosene-Type Jet Fuel	114	0	125		449		1,019	0	201	4	0	92	0		٥
Kerosene	0	0	u		0		0	0	0	0	0	0	0		0
Distillate Fuel Oil	1,959	0	248		214		4,854	0	363	358	0	247	0		0
Residual Fuel Oil	0	0	U		0		٥	0	0	0	0	0	0		0
Miscellaneous Products	0	a	195	0	0	0	۵	0	0	0	0	0	0		0
Total	6,467	0	2,212		2,031		25,157	0	1,638	1.724	915	1,278	0		0

Table 28. Movements of Crude Oil and Petroleum Products by Tanker and Barge between PAD Districts, June 1984 (Thousand Barrels)

		From I to		ъ	From II to				From III to	E to			ட	From V to	
Commodity	=	=	>	_	=	>	_	New Eng	Cent Atl	Low	==	>	<u> </u>	=	3
Grude Oil	σ	261	-	8		•	444	٥	707	٠	4 607		000	6,5	96+6+
	>	3	•	3	•	•	<b>!</b>	>	Ī	>	00'1	>	2,323	045	12,120
Petroleum Products	2,426	405	0	547	133 133	844	19,130	787	3,341	15,002	2,719	5	0	0	£
Liquefied Petroleum Gases	0	0	0	0	0	0	185	0	0	185	0	0	0	0	٥
Unfinished Oils	0	0	0	0	٥	844	130	0	62	89	40	0	0	0	0
Motor Gasoline Blending Components	0	0	0	0	0	0	37	0	0	37	0	0	0	0	0
· Finished Motor Gasoline		0	0	237	23	0	10,470	88	1,130	9,312	644	0	0	0	0
Finished Leaded Motor Gasoline		0	0	8	56	0	3,659	0	124	3,535	294	0	0	0	0
Finished Unleaded Motor Gasoline	575	0	0	72	27	0	6,811	58	1,006	5,777	350	0	0	0	0
Finished Aviation Gasoline	0	0	0	0	0	0	249	83	94	132	83	0	0	0	0
Naphtha-Type Jet Fuel	121	<u>æ</u>	0	0	0	0	0	0	0	0	0	0	0	O	0
Kerosene-Type Jet Fuel	48	0	0	16	0	0	1,956	168	435	1,353	85	0	0	0	0
Kerosene	ო	0	0	0	0	0	49	0	0	49	0	0	0	0	0
Distillate Fuel Oil	820	0	0	6	80	0	3,318	9	903	2,399	763	0	0	0	0
Residual Fuel Oil	0	٥	0	99	34	0	1,640	225	0	1,088	-	0	0	0	0
Naphtha and Other Oils for Petro. Feed. Use	34	0	0	17	0	0	6	0	0	đ	19	0	0	0	0
Special Naphthas	0	٥	0	0	0	0	147	0	₹	56	120	0	0	0	0
Lubricants	0	148	0	35	53	0	642	0	436	206	475	5	0	0	40
Waxes	0	0	o	0	0	0	우	0	9	0	0	0	0	0	0
Asphalt and Road Oil	0	120	0	116	0	0	<del>2</del>	0	45	138	509	0	0	0	0
Miscellaneous Products	43	26	٥	8	37	0	105	0	105	0	0	0	0	0	33
Total	2,435	999	0	573	155	84	19,574	787	3,785	15,002	4,406	5	2,923	642	12,199

Table 29. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker and Barge between PAD Districts, June 1984 (Thousand Barrels)

	/d	PAD District	_	P.A.	PAD District II	-	PAI	PAD District III		PA	PAD District IV	≥	PA	PAD District V	>
Commodity	Receipts into PADD I	Ship- ments from PADD I	Net Receipts PADD I	Receipts into	Ship- ments from PADD II	Net Receipts PADD II I	Receipts into PADD III	Ship- ments from PADD III	Net Receipts PADD III	Receipts into PADD IV	Ship- ments from PADD	Net Receipts PADD IV	Receipts into PADD V	Ship- ments from PADD V	Net Receipts PADD V
Crude Oil (Tanker and Barge only)	3,393	270	3,123	2,338	56	2,312	12,387	2,131	10,256	0	0	0	0	15,691	-15,691
Petroleum Products	76,359	9,298	67,061	38,493	14,299	24,194	10,058	103,124	-93,066	2,031	3,917	-1,886	3,770	73	3,697
Pentanes Plus	ې <del>د</del>	> 0	) ;	935	841	94	66	825	139	0	233	-233	0	0	0
Liquefied Petroleum Gases	1,487	<b>~</b> (	1,487	6,920	5,635	1,285	5,926	7,351	-1,425	45	1,392	-1,347	0	0	0
Unfinished Oils	<u> </u>	<b>-</b>	130	<del>4</del> 0	<del>84</del>	90 <del>4</del>	0	2	-170	0	0	0	844	0	844
Motor Gasoline Blending Components	ਲ '	<b>5</b> 6	<u>ښ</u>	0 (	0	0	0	37	-37	0	0	0	0	0	٥
Aviation Gasoline Blending Components	0	O !	Ö	0	0	0	0	0	0	٥	0	Ф	0	0	0
Finished Motor Gasoline	46,878	5,706	41,172	18,892	4,547	14,345	1,790	58,924	-57,134	1,301	1,461	-160	1,777	0	1.777
Finished Leaded Motor Gasoline	17,068	2,979	14,089	9,193	2,032	7,161	906	22,884	-21,978	642	906	-264	365	0	666
Finished Unleaded Motor Gasoline	29,810	2,727	27,083	669'6	2,515	7.184	884	36,040	-35,156	629	555	104	785	0	785
Finished Aviation Gasoline	274	15	259	188	23	98	0	447	-447	22	0	22	0	0	0
Naphtha-Type Jet Fuel	281	202	29	<u>8</u>	203	51	290	526	-236	0	130	-130	236	0	236
Kerosene-Type Jet Fuel	8,653	162	8,491	1,270	623	647	88	9,822	-9,784	449	96	353	293	0	293
Kerosene	229	က	226	ო	Φ	ო	•	229	-229	0	0	0	0	0	a
Distillate Fuel Oil	15,226	2,809	12,417	8,784	1,056	7,728	532	20,896	-20,364	214	605	-391	610	0	610
Residual Fuel Oil	1,675	0	1,675	-	69	89	34	1,641	-1,607	0	0	0	0	0	0
Naphtha and Other Oils for Petro.															
Feedstock Use	56	34	٣	83	17	36	0	88	87 -	0	0	0	0	0	o
Special Naphthas	147	0	147	120	0	120	0	267	-267	0	0	0	0	0	a
Lubricants	677	148	529	475	28	417	211	1,127	-916	0	0	0	5	40	90
Waxes	9	0	5	0	0	0	0	2	9-	0	٥	0	0	0	<u> </u>
Asphalt and Road Oil	299	120	179	209	116	383	120	692	-572	0	0	0	0	0	c
Miscellaneous Products	330	66	33	43	262	-219	126	105	21	0	Q	0	0	83	ဗို
Total All Products	79,752	9,568	70,184	40,831	14,325	26,506	22,445	22,445 105,255	-82,810	2,031	3,917	-1,886	3,770	15,764	-11,994

Table 30. Production of Residual Fuel Oil by Sulfur Content, June 1984 (Thousand Barrels)

chian III. Ky. Nisc.	East Appala- App Coast Chian Total ch	ا سی
.045 87 193 765		

Source: See Explanatory Notes on Data Collection and Estimation.

Table 31. Stocks of Residual Fuel Oil by Sulfur Content, June 1984 (Thousand Barrels)

	PA	PAD District	-		PAI	PAD District	_	-			DAD Dietriot	11 100		-	200	CVC	
Commodity	East Appala- Coast chian	Appala- chian #1	Total	Appala- chian #2	ind. III. Ky.	Minn., Wisc., 1 Daks.	Okla. Kans., Mo.	Total	Texas	Texas Gulf Coast	Gulf Gulf Gast		New Mexico	Total	1	Dist. V West	United States
Residual Fuel Oil - 0.00 to 0.30% Sulfur Refinery	431	27	458	0	46	80	5	2	94	8	297	ន	=	459	_ 	371	1,455
bulk lerminal	1	H	4,041		1 1	1 1	П	9 6	1 8	11	1	1	1	249	0 5	25	4,348
Residual Fuel Oil - 0.31 to 1.00% Sulfur								2				ŧ	ĺ	9	3	Ş	ono'n
Heilney Bulk Terminal	1,156  -	ო 	1,159 6,503	- <del>2</del> 5	1 233	o 	8	651 461	128 1	1,173	1,162	ا ھ	o 	2,513 1,769	123 O	1,779	6,225 9,511
lotal	ı	I	7,662	l	I	I	1	1,112	ļ	1	1	1	1	4,282	123	2,557	15,736
Residual Fuel Oil – Greater than 1.00% Sulfur Refinery	700	74	774	ო	862	238	82	1,165	163	2,757	1,211	S	7	4.188	284	4.953	11.364
Bulk Terminal	ı	I	8,973	I	ŀ	I	ı	1,232	ı	1	1	ı	ı	2,035	0	1,503	13,743
10[3]	ł	I	9,747	I	l	I	I	2,397	I	ł	I	I	I	6,223	284	6,456	25,107

Source: See Explanatory Notes on Data Collection and Estimation.

— Not Applicable

- Not Applicable

Table 32. Movements of Residual Fuel Oil by Tanker and Barge between PAD Districts, by Sulfur Content, June 1984 (Thousand Barrels)

		From I to			From II to		:		From III to	III to			_	From V to	
Commodity	=	=	^		=	>	_	New Eng	Cent	Low	=	>	_	=	≡
Residual Fuel Oil	0000	0000	0000	35 0 0 35	¥ 0 0 \$	0000	1,640 313 364 963	552 0 0 552	0000	1,088 313 364 411	-00-	0000	0000	0000	0000

Table 33. Imports of Residual Fuel Oil by Sulfur Content by Country of Origin, June 1984 (Thousand Barrels)

		Residua	Residual Fuel Oil	
Country	0.00 to 0.30%	0.31 to 1.00%	Greater Than 1.00%	Total
Alberia Alberia	1,186	c	C	1 186
Iraq	0	0	. 0	
Kuwait	0	0	792	792
Libya	0 6	0 (	0	0
Catal Amin	> <	0 0	o (	0
United Arab Emirates	9 6	<b>&gt;</b> c	<b>-</b>	0 0
Subtotal Arab OPEC	1,186	00	792	1,978
Other OBEC				
Forador	c	c	431	777
	0	0		- C
Indonesia	939	153	45	1.134
Iran	0	0	0	
Nigeria	0 5	0 !	0	0
Venezuela	485	302	3,223	4,013
Subtotal Other CPEC	1,424	429	3,675	5,558
Other				
Angola	0	O	c	c
	0	· (7)	1,	9 2
	491	0	0	491
Bolivia	0	0	0	0
Brazil	1,083	812	0	1,895
Впле	0 ;	0	0	0
Canada	32	234	358	623
	<b>&gt;</b> c	'9L	0 (	167
Egypt	o c	<b>&gt;</b> C	<b>&gt;</b> c	<b>-</b>
Ghana	. 0	0	0	
Liberia	0	0	. 0	0
Malaysia	o	45	(s)	45
Mexico	0	0	ω	9
Netherlands	0	0	0	0
Netherlands Antilles	526	204	3,849	4,613
Oman	o ¢	<b>&gt;</b> c	<b>.</b>	<b>&gt;</b> C
People's Republic of China	• •	0 0	0	<b>&gt;</b> C
Pen	. 0	207	250	456
Puerto Rico	0	0	0	0
Romania	0	389	0	388
Spain	0	0	0	0
Syria	0	0 (	<b>o</b> (	0 6
Innigad	<b>o</b> c	<b>5</b> 6	<b>-</b>	<b>&gt;</b> 6
Linkod Kinadom	00	<b>&gt;</b> c	<b>&gt;</b> c	> 0
Virgin felands	458 0	1 351	1 082	0 80
Ynoslavia	} =			) 
Zaire	0	0	0	. 0
I				3. 41. 6. 81. B.A

رد Thousand Barrels) (continued)

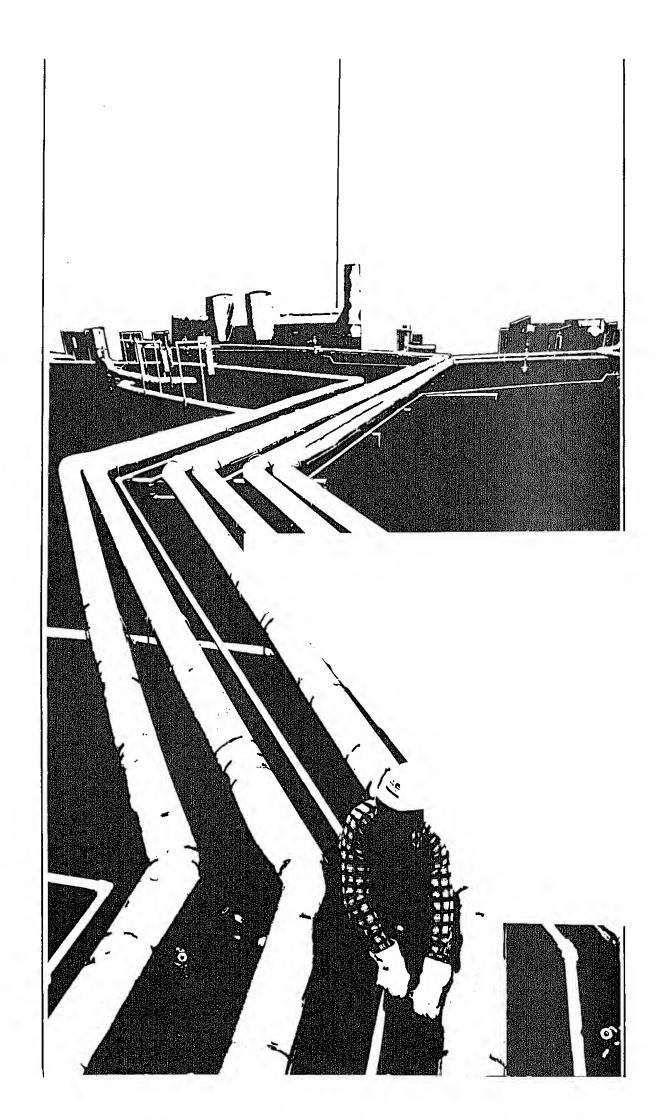
		Residu	Residual Fuel Oil	
Country	0.00 to 0.30%	0.31 to 1.00%	Greater Than 1.00%	Total
Other				
Other Western Hemisphere	147	0	475	609
Other Eastern Hemisphere	(§)	446	) e	1 22
Subtotal Other	2,467	4,161	6,119	12,747
Total Imports	5,077	4,619	10,586	20,283

(s) = Less than 500 barrels. Note: Total may not equal sum of components due to independent rounding. Source: See Explanatory Notes on Data Collection and Estimation.

Table 34. Imports of Residual Fuel Oil by Sulfur Content by State of Entry, June 1984 (Thousand Barrels)

		Residu	Residual Fuel Oil	
State	0.00 to 0.30%	0.31 to 1.00%	Greater Than 1.00%	Total
PAD District	4 655	2000		
Control of the contro	4,033	3,305	9,603	18,223
Connecticut		320	0	320
Delaware	•	0	101	101
Florida	0	682	1.127	1 809
Georgia	0	0	24	24
Maine		202	613	2,0
Maryland		ì	304	610
	266	386	100	5 6
New Hampshire				2,473
New Jereev	5	0 90	00 .	09
New York	201.1	926	97/1	3,765
MATE OF THE PROPERTY OF THE PR	7,761	BOS .	2,184	5,912
North Carolina	•	0	162	162
Pennsylvania	523	418	535	1,476
Rhode Island	0	0	69	69
South Carolina	0	48	254	301
Vermont	4	0	(s)	4
Virginia	0	0	603	609
PAD District II	*	96	Ş	ç
Ilinois			ş «	<u> </u>
MINIOUS SECTION	<b>)</b>	g, ʻ	0	80
Michigan	(s)	۰	0	ဖ
Minnesota	4	0	24	88
North Dakota	0	0	-	-
Wisconsin	0	0	18	18
PAD District III	406	281	792	1.480
Louisiana	0	37	0	37
Texas	406	245	792	1,443
	,			
FAD DISTIGNA	_	0	-	7
Montana	<b></b>	0	<b>-</b>	7
BAD District V	ç	•	,	!
California	2 0	288	24. 25.	445
	> (	<b>)</b>	o :	ٔ م
Washington	20	781	241	433
	•	-	Þ	•
All PAD Districts	5,077	4,619	10.586	20.283

(s) = Less than 500 barrels. Note: Total may not equal sum of components due to independent rounding. Source: See Explanatory Notes on Data Collection and Estimation.



# Definitions of Petroleum Products and Other Terms

Alcohol. The family name of a group of organic chemlcal compounds composed of carbon, hydrogen, and oxygen. The series of molecules vary in chain length and are composed of a hydrocarbon plus a hydroxyl group; CH-(CH)n-OH. Alcohol includes methanol and ethanol.

Alkylation. A refinery process for chemically combining isoparaffin with olefin hydrocarbons. The product, alkylate, has high octane value and is blended with motor and aviation gasoline to improve the antiknock value of the fuel.

**API Gravity.** An arbitrary scale expressing the gravity or density of liquid petroleum products. The measuring scale is calibrated in terms of degrees API; it may be calculated in terms of the following formula:

Deg API = 
$$\frac{141.5}{\text{sp gr 60F/60F}}$$
 - 131.5

**Aromatics.** Hydrocarbons characterized by unsaturated ring structures of carbon atoms. Commercial petroleum aromatics are benzene, toluene, and xylene.

Asphalt. A dark-brown-to-black cement-like material containing bitumens as the predominant constituents, obtained by petroleum processing. The definition includes crude asphalt as well as the following finished products: cements, fluxes, the asphalt content of emulsions (exclusive of water), and petroleum distillates blended with asphalt to make cutback asphalts. The conversion factor for asphalt is 5.5 barrels of 42 U.S. gallons per short ton.

**ASTM.** The acronym for the American Society for Test-Ing and Materials.

Aviation Gasoline Blending Components. Finished components in the gasoline range which will be used for blending or compounding into finished aviation gasoline.

Aviation Gasoline (Finished). All special grades of gasoline for use in aviation reciprocating engines, as given in ASTM Specification D910 and Military Specification MIL-G5572. Excludes blending components which will be used in blending or compounding into finished aviation gasoline.

Barrel. A volumetric unit of measure for crude oil and petroleum products equivalent to 42 U.S. gallons. This measure is used in most statistical reports. Factors for converting petroleum coke, asphalt and wax to barrels are given in the definitions for these products.

Barrels Per Calendar Day. See Operable Capacity.

Barrels Per Stream Day. See Operable Capacity.

Bi-Metallic. A term used to describe a type of catalyst. A catalytic process utilizing a catalyst comprised of two metals (e.g. platinum, rhenium).

Butane. A normally gaseous straight-chain or branch-chain hydrocarbon. (C4H10). It is extracted from natural gas or refinery gas streams. It includes isobutane and normal butane and is covered by ASTM Specification D1835 and Gas Processors Association Specifications for commercial butane.

Isobutane. A normally gaseous branch-chain hydrocarbon, (C4H10). It is a colorless paraffinic gas that boils at a temperature of 10.9 degrees F. It is extracted from natural gas or refinery gas streams.

Normal Butane. A normally gaseous straight-chain hydrocarbon, (C4H10). It is a colorless paraffinic gas that boils at a temperature of 31.1 degrees F. It is extracted from natural gas or refinery gas streams.

Butylene. An olefinic hydrocarbon, (C4H8), recovered from refinery processes.

Catalytic Cracking. The refining process of breaking down the larger, heavier, and more complex hydrocarbon molecules into simpler and lighter molecules. Catalytic cracking is accomplished by the use of a catalytic agent and is an effective process for increasing the yield of gasoline from crude oil.

Catalytic Hydrocracking. A refining process for converting middle boiling or residual material to high-octane gasoline, reformer charge stock, jet fuel and/or high grade fuel oil. Hydrocracking is an efficient, relatively low temperature process using hydrogen and a catalyst.

Catalytic Hydrotreating. A process for treating petroleum fractions (e.g. distillate fuel oil and residual oil) and unfinished oils (e.g. naphthas, reformer feeds and heavy gas oils) in the presence of catalysts and substantial quantities of hydrogen to upgrade their quality.

Catalytic Reforming. The use of controlled heat and pressure with catalysts to effect the rearrangement of certain hydrocarbon molecules without altering their composition appreciably; the conversion of low-octane gasoline fractions into higher octane stocks suitable for blending into finished gasoline; also the conversion of naphthas to obtain a more volatile product of higher octane number.

Conventional. A term used to describe a type of catalyst. A catalystic process utilizing a catalyst comprised of a metal and a non-metal (e.g. platinum, alumina).

Coal. A generic term applied to carbonaceous rocks that were formed by the partial or complete decomposition of vegetation. These stratifed carbonaceous rocks are either solid or brittle and are highly combustible. Includes lignite, bituminous coal, and anthracite which conform to ASTM Specification D388.

Crude Distillation. The refining process of separating crude oil components by heating and subsequent condensing of the fractions by cooling.

Crude Oil (including Lease Condensate). A mixture of hydrocarbons that existed in liquid phase in underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. included are lease condensate and liquid hydrocarbons produced from tar sands, gilsonite and oli shale. Drip gases are also included, but topped crude oil (residual) oil and other unfinished oils are excluded. Liquids produced at natural gas processing plants and mixed with crude oil are likewise excluded where Identifiable. Crude oil is considered as either domestic or foreign according to the following:

**Domestic.** Crude oil produced in the United States or from its "outer continental shelf" as defined in 43 U.S.C. 1331.

Foreign. Crude oil produced outside the United States. Imported Athabasca hydrocarbons are included.

Delayed Coking. A process to produce iow Conradson carbon gas oil for catalytic cracking feedstock and for gasoline.

Distillate Fuel Oil. A general classification for one of the petroleum fractions produced in conventional distillation operations. It is used primarily for space heating, on-and-off-highway diesel engine fuel (Including railroad engine fuel and fuel for agricultural machinery), and electric power generation. Included are products known as No. 1, No. 2, and No. 4 fuel oils; No. 1, No. 2, and No. 4 diesel fuels.

No. 1 Fuel Oil. A light distillate fuel oil intended for use in vaporizing pot-type burners. ASTM Specification D396 specifies for this grade maximum distillation temperatures of 400 degrees F. at the 10-percent point and 550 degrees F. at the 90-percent point, and kinematic viscosities between 1.4 and 2.2 centl-stokes at 100 degrees F.

No. 2 Fuel Oil. A distillate fuel oil for use in atomizing-type burners for domestic heating or for moderate capacity commercial-industrial burner units. ASTM Specification D396 specifies for this grade distillation temperatures at the 90-percent point between 540 degrees and 640 degrees F., and kinematic viscosities between 2.0 and 3.6 centistokes at 100 degrees F.

No. 1 and No. 2 Diesel Fuel Oils. Distillate fuel oils used in compression-ignition engines, as given by ASTM Specification D975:

No. 1-D. A volatile distiliate fuel oil with a boiling range between 300-575 degrees F. and used in high-speed diesel engines generally operated under variations in speed and load, includes type C-B diesel fuel used for city buses and similar operations. Properties are defined in ASTM Specification D975.

No. 2-D. A gas oil type distillate of lower volatility with distillation temperatures at the 90-percent point between 540-640 degrees F. for use in high-speed diesel engines generally operated under uniform speed and load conditions. Includes Type R-R diesel fuel used for railroad locomotive engines, and Type T-T for diesel-engine trucks. Properties are defined in ASTM Specification D975.

No. 4 Fuel Oil. A fuel oil for commercial burner installations not equipped with preheating facilities. It is used extensively in industrial plants. This grade is a blend of distillate fuel oil and residual fuel oil stocks that conforms to ASTM Specification D396 or Federai Specification VV-F-815C; Its kinematic viscosity is between 5.8 and 26.4 centistokes at 100 degrees F. Also included is No. 4-D, a fuel oil for lowand medium-speed diesel engines that conforms to ASTM Specification D975.

Eastern Hemisphere. That haif of the earth east of the Atlantic Ocean which includes Europe, Asia, Africa and Australia. The Hawailan Foreign Trade Zone is in this hemisphere.

Electric Energy (Purchased). Electricity purchased for refinery operations that is not produced within the refinery complex.

Ethane. A normally gaseous straight-chain hydrocarbon, (C2H6). It is a colorless paraffinic gas that bolls at a temperature of -127.48 degrees F. It is extracted from natural gas and refinery gas streams.

Ethylene. An olefinic hydrocarbon, (C2H4), recovered from refinery processes or petrochemical processes.

Field Production. Represents crude oil production on leases, natural gas ilquids production at natural gas processing plants, and new supply of other hydrocarbons and alcohol.

Fluid Coking. A thermal process utilizing the fiuldizedsolids technique for continuous conversion of heavy, iow-grade oils into lighter products.

### Gasohol. See Motor Gasoline (Finished).

Gas Oil. A liquid petroleum distiliate having a viscosity intermediate between that of kerosene and iubricating oil. Derives its name from having originally been used in the manufacture of illuminating gas. Now supplies distiliate-type fuel oils and diesel fuel, also cracked to produce gasoline.

Gasoline Blending Components. Finished components in the gasoline range which will be used for blending or compounding into finished aviation or motor gasoline.

*Idle Capacity.* The component of operable capacity that is not in operation and not under active repairs, but capable of being placed in operation within 30 days; and capacity not in operation but under active repairs that can be completed within 90 days.

imported Crude Oil Burned As Fuel. The amount of foreign crude oil burned as a fuel oil, usually as residual fuel oil, without being processed as such. imported crude oil burned as fuel includes lease condensate and ilquid hydrocarbons produced from tar sand oil, gilsonite, and shale oil.

isobutane. See Butane.

isomerization. A refining process which alters the fundamental arrangement of atoms in the molecule. Used to convert normal butane into isobutane, an alyklation process feedstock, and normal pentane and hexane into isopentane and isohexane, high-octane gasoline components.

Kerosene. A petroleum distillate that boils at a temperature between 300-550 degrees F., that has a flash point higher than 100 degrees F. by ASTM Method D56, that has a gravity range from 40-46 degrees API, and that has a burning point in the range of 150-175 degrees F. Included are the two classifications recognized by ASTM D3699: No. 1-K and No. 2-K, and all grades of keresene called range or stove oil which have properties similar to No. 1 fuel oil, but with a gravity of about 43 degrees API and a maximum end-point of 625 degrees F. Kerosene is used in space heaters, cook stoves, and water heaters and is sultable for use as an illuminant when burned in wick lamps.

Kerosene-Type Jet Fuel. A quality kerosene product with an average gravity of 40.7 degrees API, and a 10 percent distillation temperature of 400 degrees F. It is covered by ASTM Specification D1655 and Military Specification MIL-T-5624L (Grades JP-5 and JP-8). A relatively low-freezing point distillate of the kerosene type; It is used primarily for commercial turbojet and turboprop aircraft engines.

Lease Condensate. A natural gas liquid recovered from gas well gas (associated and nonassociated) in lease separators or natural gas field facilities. Lease condensate consists primarily of pentanes and heavier hydrocarbons.

Liquefied Petroleum Gases (LPG). Ethane, Ethylene, propane, propylene, normal butane, butylene, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw natural gas plant liquids.

Liquefied Refinery Gases (LRG). Liquefied petroleum gases fractionated from refinery or still gases. Through compression and/ or refrigeration they are retained in the liquid state. The reported categories are ethane/ethylene, propane/propylene, normal butane/butylene, and isobutane. Excludes still gas used for chemical or rubber manufacture which is reported as a petrochemical feedstock and also excludes liquefied petroleum gases intended for blending into gasoline which are reported as gasoline blending components. Liquefied refinery gases are reported for use as petrochemical feedstock or other uses.

Lubricating Oils. A substance used to reduce friction between bearing surfaces. Petroleum lubricants may be produced either from distillates or residues. Other substances may be added to impart or improve certain required properties. "Lubricants" includes all grades of lubricating oils from spindle oil to cylinder oil and those used in greases. The three categories include:

Bright Stock. A refined, high viscosity lubricating oil base stock that is usually made from a residuum by a treatment such as deasphalting, acid treatment, or solvent extraction.

Neutral. A distillate lubricating oil base stock with a viscosity that is usually not above 550 Saybolt Universal Seconds (SUS) at 100 degrees F. It is prepared by a treatment such as hydrofining, acid treatment, or solvent extraction.

Other. A lubricating oil base stock used in finished lubricating oils and greases, including black, coastal, and red oils.

Middle Distillates. A general classification that includes distillate fuel oil and kerosene.

Miscellaneous Products. Includes all finished products not classified elsewhere, e.g., petrolatum, absorption oils, ram-jet fuel, petroleum rocket fuels, synthetic natural gas feedstocks, speciality oils and medicinal oils.

Motor Gasoline Blending Components. Finished components in the gasoline range which will be used for blending or compounding into finished motor gasoline. Pool gasoline is included in this category.

Motor Gasoline (Finished). A complex mixture of relatively volatile hydrocarbons, with or without small quantities of additives, that have been blended to form a fuel suitable for use in spark-ignition engines. Specifications for motor gasoline, as given in ASTM Specification D439 or Federal Specification VV-G-1690B, include a boiling range of 122-158 degrees F. at the 10-percent point to 365-374 degrees F. at the 90-percent point and a Reid vapor pressure range from 9 to 15 psi. "Motor gasoline" includes finished leaded gasoline, finished unleaded gasoline, and gasohol. Blendstock is excluded until blending has been completed. Alcohol that is to be used in the blending of gasohol is also excluded.

Finished Leaded Gasoline. Contains more than 0.05 gram of lead per gallon or more than 0.005 gram of phosphorus per gallon. The actual lead content of any given gallon, however, may vary as a function of the size of the producer and company according to specific Environmental Protection Agency waiver provisions. Premium and regular grades are included, depending on the octane rating. Includes leaded gasohoi. Blendstock is excluded until blending has been completed. Alcohol that is to be used in the blending of gasohoi is also excluded.

Finished Unleaded Gasoline. Contains not more than 0.05 gram of lead per gallon and not more than 0.005 gram of phosphorus per gallon. Premium and regular grades are included, depending on the octane rating, includes unleaded gasohol. Biend stock is excluded until blending has been completed. Alcohol that is to be used in the blending of gasohol is also excluded.

Gasohol. A blend of finished motor gasoline (leaded or unleaded) and alcohol (generally ethanol but sometimes methanol) in which 10 percent or more of the product is alcohol.

Naphtha-Type Jet Fuel. A fuel in the heavy naphtha boiling range with an average gravity of 52.8 degrees API and 20 to 90 percent distillation temperatures of 290 degrees to 470 degrees F, meeting Military Specification MIL-T-5624L (Grade JP-4). JP-4 is used for turbojet and turboprop aircraft engines, primarily by the military. Excludes ram-jet and petroleum rocket fuels.

Natural Gas. A mixture of hydrocarbons and small quantities of various nonhydrocarbons existing in the gaseous phase or in solution with crude oil in underground reservoirs.

Natural Gas Field Facility. A field facility designed to process natural gas produced from more than one lease for the purpose of recovering condensate from a stream of natural gas; however, some field facilities are designed to recover propane, normal butane, pentanes plus, etc., and to control the quality of natural gas to be marketed.

Natural Gas Plant Liquids. Natural gas liquids recovered from natural gas in gas processing plants, and in some situations, from natural gas field facilities. Natural gas liquids extracted by fractionators are also included. These liquids are defined according to the published specification of the Gas Processors Association and the American Society for Testing and Materials and are classified as follows: Ethane, propane, normal butane, isobutane, pentanes plus, and other products from natural gas processing plants (i.e. products meeting the standards for finished petroleum products produced at natural gas processing plants, such as finished motor gasoline, finished aviation gasoline, special naphthas, kerosene, distillate fuel oil, and miscellaneous products).

Natural Gasoline and Isopentane. A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas, that meets vapor pressure, end-point, and other specifications for natural gasoline set by the Gas Processors Association. includes isopentane which is a saturated branch-chain hydrocarbon, (C5H12), obtained by fractionation of natural gasoline or isomerization of normal pentane.

### Normal Butane. See Butane.

OPEC. The acronym for the Organization of Petroleum Exporting Countries, oil-producing and exporting countries that have organized for the purpose of negotiating with oil companies on matters of oil production, prices and future concession rights, Current members are Aigeria, Ecuador, Gabon, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezueia.

Operable Capacity. The amount of capacity that, at the beginning of the period, is in operation; not in operation, and not under active repairs but capable of being placed in operation within 30 days; or not in operation but under active repairs that can be completed within 90 days. Operable capacity is the sum of the operating and idie capacity and is measured in barreis per calendar day or barrels per stream day.

Barrels Per Calendar Day. The maximum number of barrels of Input that can be processed in an atmos-

pheric distillation facility during a twenty-four hour period after making allowances for the following limitations:

The capability of downstream facilities to absorb the output of crude oil processing facilities of a given refinery. No reduction is made when a planned distribution of intermediate streams through other than downstream facilities is part of a refinery's normal operation.

The types and grades of inputs to be processed.

The types and grades of products expected to be manufactured.

The environmental constraints associated with refinery operations.

The reduction of capacity for scheduled downtime such as routine inspection, mechanical problems, maintenance, repairs and turnaround.

The reduction of capacity for unscheduled downtime such as mechanical problems, repairs, and slowdowns.

Barrels Per Stream Day. The amount a unit can process running at full capacity under optimal crude and product slate conditions.

Operating Capacity. The component of operable capacity that is in operation at the beginning of the period.

Other Hydrocarbons. Materials received by a refinery and consumed as raw materials. Includes hydrogen, coal tar derivatives, gilsonite, and natural gas received by the refinery for reforming into hydrogen. Natural gas to be used as fuel is excluded.

Pentanes Plus. A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas. includes isopentane, natural gasoline and plant condensate.

Petrochemical Feedstock Use. Chemical feedstocks derived from petroleum, principally for the manufacture of chemicals, synthetic rubber and a variety of plastics. The categories reported are "Naphtha-Less than 400 degrees F. end-point" and "Other oils over 400 degrees F. end point."

Naphtha-Less Than 400 Degrees F. End-Point. A naphtha with an end point of less than 400 degrees F. that is intended for use as a petrochemical feed-stock.

Other Oils-Over 400 Degrees F. End-Point. Oils with an end point over 400 degrees F. that is intended for use as a petrochemical feedstock.

Petroleum Coke. A residue, the final product of the condensation process in cracking. This product is reported as marketable coke or catalyst coke. The conversion factor is 5 barrels of 42 U.S. gallons per short ton.

Marketable Coke. Those grades of coke produced In delayed or fluid cokers which may be recovered as relatively pure carbon. This "green" coke may be sold as is or further purified by calcining.

Catalyst Coke. In many catalytic operations (i.e., catalytic cracking) carbon is deposited on the catalyst thus, deactivating the catalyst. The catalyst is reactivated by burning off the carbon, which is used as a fuel in the refinery process. This carbon or coke is not recoverable in a concentrated form.

Petroleum Products. Petroleum products are obtained from the processing of crude oil (including lease condensate), natural gas and other hydrocarbon compounds. Petroleum products include unfinished oils, liquefied petroleum gases, pentanes plus, aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet fuel, kerosene, distiliate fuel oil, residual fuel oil, naphtha less than 400 F. end-point, other oilsover 400 F. end-point, special naphthas, lubricants, waxes, petroleum coke, asphalt, road oil, still gas, and miscellaneous products.

Petroleum Refinery. An Installation that manufacturers finished petroleum products from crude oil, unfinished oils, natural gas ilquids, other hydrocarbons, and alcohol.

Plant Condensate. One of the natural gas liquids, mostly pentanes and heavier hydrocarbons, recovered and separated as liquids at gas inlet separators or scrubbers in processing plants.

Primary Stocks. Stocks of crude oll or petroleum products held in storage at (or in) leases, refinerles, natural gas processing plants, pipelines, tankfarms, and bulk terminals that can store at least 50,000 barrels of petroleum products or that can receive petroleum products by tanker, barge, or pipeline. Crude oll that is in transit from Alaska, or that is stored on Federal leases or in the Strategic Petroleum Reserve is included. Primary Stocks excludes stocks of foreign origin that are held in bonded warehouse storage.

Propane. A normally gaseous straight-chain hydrocarbon, (C3H8). It is a colorless paraffinic gas that boils at a temperature of -43.67 degrees F. It is extracted from natural gas or refinery gas streams. It includes all products covered by Gas Processors Association Specifications for commercial propane and HD-5 propane and ASTM Specification D1835.

**Propylene.** An olefinic hydrocarbon, (C3H6), recovered from refinery processes or petrochemical processes.

Residual Fuel Oil. The topped crude of refinery operations which includes No. 5 and No. 6 fuel oils as defined in ASTM Specification D396 and Federal Specification VV-F-815C, Navy Special fuel oil as defined in Military Specification MIL-F-859E including Amendment 2 (NATO Symbol F-77), and Bunker C fuel oil. Residual fuel oil is used for the production of electric power, space heating, vessel bunkering, and various industrial purposes. Imports of residual fuel oil include "imported Crude Oil Burned as Fuel."

Road Oil. Any heavy petroleum oil, including residual asphaltic oil used as a dust pailative and surface treatment on roads and highways. It is generally produced in six grades from 0, the most liquid, to 5, the most viscous.

Special Naphthas. All finished products within the gasoline range that are used as paint thinners, cleaners, or solvents. These products are refined to a specified flash point and have a bolling range of 90 degrees to 220 degrees F. "Special naphthas" includes all commercial hexane and cleaning solvents conforming to ASTM Specification D1836 and D484, respectively. Naphthas to be blended or marketed as motor gasoline or aviation gasoline or that are to be used as petrochemical and synthetic natural gas (SNG) feedstocks are excluded.

Steam (Purchased). Steam, purchased for use by a refinery, that was not generated from within the refinery complex.

Still Gas (Refinery Gas). Any form or mixture of gas produced in refineries by distillation, cracking, reforming, and other processes. The principal constituents are methane, ethane, ethylene, normal butane, butylene, propane, propylene, etc. Still gas is reported for petrochemical feedstock use and/or refinery fuel use.

Petrochemical Feedstock Use. Includes all refinery streams which are used by chemical or rubber manufacturing operations for further processing, less the amount of such streams returned to the source refinery. Finished petrochemical products are not included. For example, polyethylene, butadlene, etc. are considered petrochemical products; therefore, only their feedstock equivalents are included.

Fuel Use. All other still gas.

Strategic Petroleum Reserve (SPR). Petroleum stocks maintained by the Federal Government for use during periods of major supply interruption.

Thermal Cracking. A refining process in which heat and pressure are used to break down, rearrange, or combine hydrocarbon molecules. Thermal cracking is used to increase the yield of gasoline obtainable from crude oil.

Unfinished Oils. Includes all oils requiring further processing, except those requiring only mechanical blending.

Unfractionated Streams. Mixtures of unsegregated natural gas liquid components excluding those in plant condensate. This product is extracted from natural gas.

Vacuum Distillation. Distillation under reduced pressure (less the atmospheric) which lowers the boiling temperature of the liquid-being distilled. This technique with its relatively low temperatures prevents cracking or decomposition of the charge stock.

Visbreaking. A thermal cracking process in which heavy vacuum-still bottoms produced on the primary distillation unit are cracked to increase production of distillate products.

Wax. A solid or semi-solid material derived from petroleum distillates or residues by such treatments as chillling, precipitating with a solvent, or de-oiling. It is lightcolored, more-or-less translucent crystalline mass, slightly greasy to the touch, consisting of a mixture of solid hydrocarbons in which the paraffin series predominates. Includes all marketable wax whether crude scale or fully refined. The three grades included are microcrystailine, crystalline-fully refined, and crystalline-other. The conversion factor is 280 pounds per 42-U.S. gallon barrel.

Microcrystalline Wax. Wax extracted from certain petroleum residues having a finer and less apparent crystalline structure than paraffin wax and having the following physical characteristics:

Penetration at 77 degrees F. (D1321)-60 maximum. Viscosity at 210 degrees F. in Saybolt Universal Seconds (SUS). (D88)-60 SUS (10.22 centistokes) minimum to 150 SUS (31.8 centistokes) maximum. Oll content (D721)-5 percent minimum.

Crystalline-Fully Refined Wax. A light-colored parafin wax having the following characteristics:

Viscosity at 210 degrees F. (D88)-59.9 SUS (10.18 centlstokes) maximum. Oil Content (D721)-0.5 percent maximum. Other +20 color, Saybolt minimum.

Crystalline Other Wax. A paraffin wax having the following characteristics:

Viscosity at 210 degrees F. (D88)-59.9 SUS (10.18 centistokes) maximum. Oil Content (D721)-0.51 percent minimum to 15 percent maximum.

Western Hemisphere. That half of the earth that includes North and South America and adjacent islands.

## Bureau of Mines Petroleum Refining Districts and PAD Districts

The following are the Bureau of Mines petroleum refining districts which make up the PAD districts:

### **PAD District I**

East Coast: District of Columbia and the States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New Jersey, Delaware, Maryland, Virginia, North Carolina, South Carolina, Georgia, Florida, and the following counties of the State of New York: Cayuga, Tompkins, Chemung and all counties east and north thereof. Also the following counties in the State of Pennsylvania: Bradford, Suillvan, Columbia, Montour, Northumberland, Dauphin, York, and all counties east thereof.

Appalachian #1: The State of West Virginia and those parts of the States of Pennsylvania and New York not Included in the East Coast District.

### **PAD District II**

Appalachian #2: The following counties of the State of Ohlo: Erie, Huron, Crawford, Marion, Delaware, Franklin, Pickaway, Ross, Pike, Scioto, and all counties east thereof.

Indiana—Illinois—Kentucky: The States of Indiana, Illinois, Kentucky, Tennessee, Michigan, and that part of the State of Ohio not Included in the Appalachian District.

Minnesota—Wisconsin—North and South Dakota: The States of Minnesota, Wisconsin, North Dakota, and South Dakota.

**Oklahoma—Kansas—Missouri:** The States of Oklahoma, Kansas, Missouri, Nebraska, and Iowa.

### **PAD District III**

Texas Inland: The State of Texas except the Texas Gulf Coast District.

Texas Gulf Coast: The following countles of the State of Texas: Newton, Orange, Jefferson, Jasper, Tyler, Hardin, Liberty, Chambers, Polk, San Jacinto, Montgomery, Harris, Galveston, Waller, Fort Bend, Brazoria, Wharton, Matagorda, Jackson, Victoria, Calhoun, Refugio, Aransas, San Patriclo, Nueces, Kleberg, Kenedy, Willacy, and Cameron.

Louisiana Gulf Coast: The following Parishes of the State of Louisiana: Vernon, Rapides, Avoyelles, Pointe Coupee, West Feliciana, East Feliciana, Saint Heiena, Tangipahoa, Washington, and all Parishes south thereof. Also the following counties of the State of Mississippl: Pearl River, Stone, George, Hancock, Harrison, and Jackson. Also the following countles of the State of Alabama: Mobile and Baidwin.

North Louisiana—Arkansas: The State of Arkansas and those parts of the States of Louisiana, Mississippi, and Alabama not Included in the Louisiana Gulf Coast District.

New Mexico: The State of New Mexico.

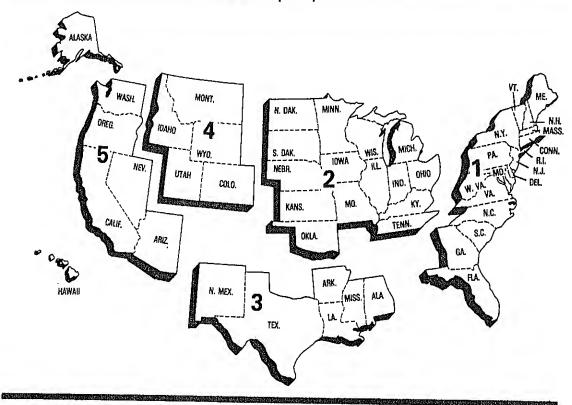
#### PAD District IV

Rocky Mountain: The States of Montana, Idaho, Wyoming, Utah, and Colorado.

### **PAD District V**

West Coast: The States of Washington, Oregon, Cailfornia, Nevada, Arlzona, Alaska, and Hawaii.

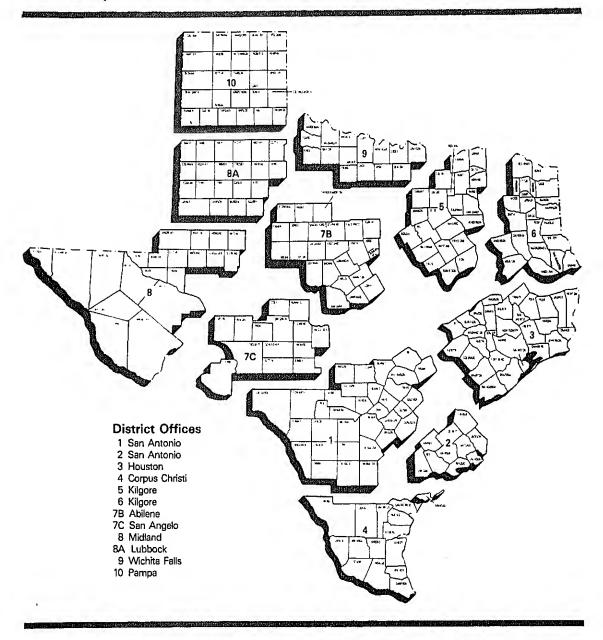
# Petroleum Administration for Defense (PAD) Districts



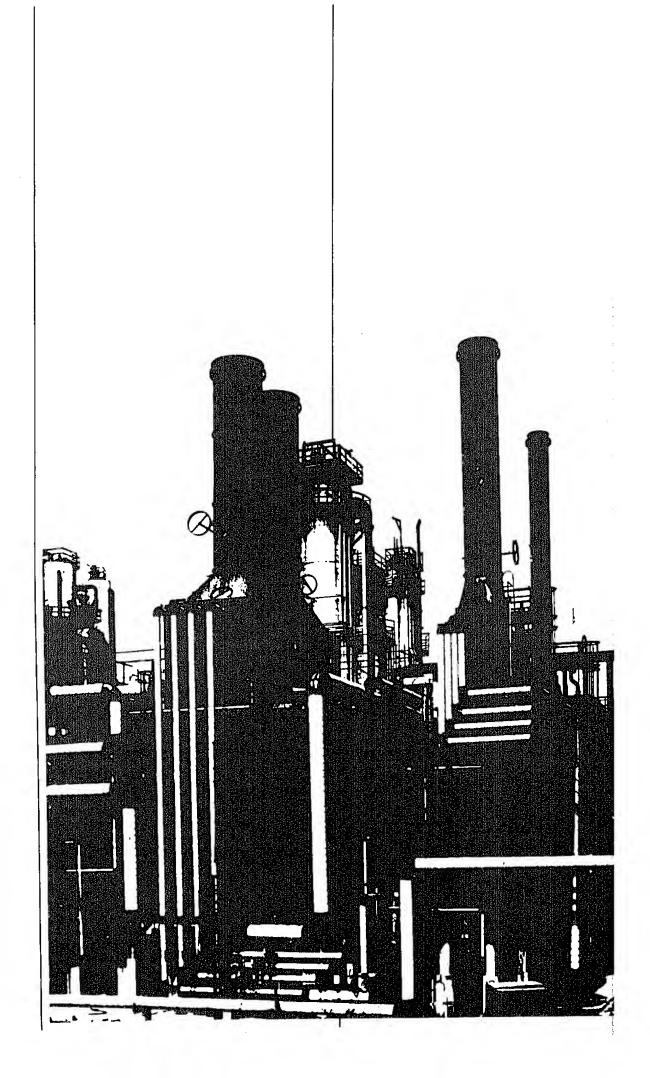
### **Bureau of Mines Refining Districts**



### District Map Oil and Gas Division Railroad Commission of Texas









# **Explanatory Notes**

### Note 1: Data Collection Methodology

### Background

Beginning in January 1983, the Energy Information Administration (EIA) unified its petroleum supply data collection activities into the Petroleum Supply Reporting System (PSRS). The PSRS represents a family of data collection survey forms, data processing systems and publication systems that have been consolidated to achieve comparability and consistency throughout. The primary focus of the consolidation has been to revise the weekly and monthly survey reporting forms to assure consistency in form layout, preparation instructions, and definitions. As a result, a new set of survey forms were implemented in January 1983. The following are the new form numbers and their corresponding predecessor forms:

New Form		Old Form
Number	Name	Number
EIA-800	Weekly Refinery Report	EIA-161
EIA-801	Weekly Bulk Terml- nal Report	EIA-162
EIA-802	Weekly Product Pipe-	EIA-163
EIA-803	Weekly Crude Oil Stocks Report	EIA-164
EIA-804	Weekly Imports Re-	EIA-165
EIA-805	Weekly Shipments- from Puerto Rico to the United States Report	
EIA-810	Monthly Refinery Re-	EIA-87
EIA-811	Monthly Bulk Termi- nal Report	EIA-88
EIA-812	Monthly Product Pipeline Report	EIA-89
EIA-813	Monthly Crude Oil Re-	EIA-90
ERA-60	Monthly Imports Re-	ERA-60
EIA-815	Monthly Shipments from Puerto Rico to the United States Report	FEA-P133- M-0
EIA-816	Monthly Natural Gas	EIA-64
EIA-817	Liquids Report Monthly Tanker and Barge Movement Report	EIA-170

Forms EIA-800 through 805 comprise the Weekly Petroleum Supply Reporting System (WPSRS). This system is designed to collect basic refinery operations and product stock data for major products on a weekly basis. Data from the WPSRS are published in the Weekly Petroleum Status Report (WPSR) and are also used to calculate the preliminary statistics in the "Summary Statistics" section of the Petroleum Supply Monthly (PSM). A description of the WPSRS survey forms follows in Note 1.1.

Forms EIA-810-813, 815-817 and ERA-60 comprise the Monthly Petroleum Supply Reporting System (MPSRS). These surveys collect detailed refinery operations data, refinery, bulk terminal and pipeline stocks data, crude oil and petroleum product imports data and movements of petroleum products and crude oil between PAD Districts data. These surveys are the primary source of data for the "Summary Statistics" and "Detailed Statistics" sections of the *PSM*. A description of MPSRS survey forms follows in Note 1.2.

Data are also obtained in magnetic tape form from the Bureau of the Census on a monthly basis. These tapes contain aggregated import and export statistics that are used in the preparation of the *PSM*. A description of the Census data follows in Note 1.3.

# Note 1.1: Weekly Petroleum Supply Reporting System (WPSRS)

### **Background**

The EIA first began publishing weekly petroleum supply statistics in April 1979 in response to the Iranian oil crisis. Initially, the published data were taken from the American Petroleum Institute (API) Weekly Statistical Bulletin. However, in January 1980 the EIA began to publish weekly statistics from its own surveys, with the exception of imports statistics which the EIA did not begin collecting until June 1980.

The weekly surveys collect data comparable to those collected on a monthly basis. Selected petroleum companies report weekly data to the EIA on crude oil and petroleum product stocks, refinery inputs and production, and crude oil and petroleum product imports. On Forms EIA-800 through EIA-803, companies report data on a custody basis. On the Form EIA-804, the importer of record reports each shipment entering the United States. On Form EIA-805, a company shipping unfinished oils and finished petroleum products into the United States from Puerto Rico reports each shipment. Current weekly data and the most recent monthly data are used to estimate the totals that are published in the Weekly Petroleum Status Report.

#### Sample Frame

The sample of companies that report weekly is selected from the universe of companies that report on the comparable monthly surveys. Sampled companies report data only for facilities in the 50 States and District of Columbia.

The sample for each survey is taken from the following universe:

EIA-800: Based on the EIA-810 universe, which includes all petroleum refineries in the United States and

its territories, industrial facilities that have crude oil distillation capacity and produce some refined petroleum products, and plants that produce finished motor gasoline through mechanical blending. The selected sample size is 215.

EIA-801: Based on the EIA-811 universe, which includes all bulk terminal facilities in the United States and its territories that have either a total bulk storage capacity of 50,000 barrels or more, or that receive petroleum products by tanker, barge, or pipeline. The selected sample size is 93.

EIA-802: Based on the EIA-812 universe, which includes all petroleum product pipeline companies in the United States and its territories that transport refined petroleum products, including interstate, intrastate and intracompany pipeline movements. Pipeline companies that transport only natural gas liquids are not included in the EiA-802 frame. Only those pipeline companies that transport products covered in the weekly survey are included. The selected sample size is 65.

EIA-803: Based on the EIA-813 universe, which consists of all companies which carry or store crude oil of 1,000 barrels or more in the 50 States, and the District of Columbia. Included are gathering and trunk pipeline companies (including interstate, intrastate, and intracompany pipelines), crude oil producers, terminal operators, storers of crude oil, and companies transporting Alaskan crude oil by water.

EIA-804: Based on the ERA-60 universe, which includes all Importers of record of crude oil and petroleum products into the United States and Puerto Rico. The selected sample size is 65.

EIA-805: Based on the EIA-815 universe, which includes all shippers of unfinished oils and petroleum products into the United States from Puerto Rico. Four companies report.

### Sampling Method

The cut-off method is the sampling procedure used for all weekly surveys except the EIA-802, which uses the monthly universe in its entirety. In the cut-off method, companies are ranked from largest to smallest on the basis of the quantities reported during some previous 12-month period. Companies are chosen for the sampling, beginning with the largest and adding companies until the total sample covers 90 percent of the total for the previous time period for each product published in the Weekly Petroleum Status Report.

### **Collection Methods**

Data are collected by mail, mailgram, telephone, Telex, and Telefax on a weekly basis. The report period closes each Friday at 7 a.m. All canvassed firms and terminal operations companies must file by 5 p.m. on the following Monday.

### **Estimation and Imputation**

After company reports have been checked and entered into the weekly data base, weekly totals for given products are estimated by using the following formula.

The total reported by all companies for the most recent month  $(M_t)$  is divided by the amount reported by the sample of companies for the most recent month  $(M_s)$ . The result is multiplied by the amount reported by the sample of companies for the current week  $(W_s)$ . The answer,  $W_t$ , is an estimate of the amount that would have been reported by all companies for the current week if all companies reported each week.

$$W_t = \frac{M_t}{M_s} (W_s)$$

This procedure is used to estimate total weekly inputs to refineries and production.

To estimate stocks of finished products, the preceding procedure is followed separately for refineries, bulk terminals, and pipelines. Total estimates are formed by summing over establishment types.

Weekly imports data are highly variable on a companyby-company basis or a week-by-week basis. Therefore, an exponentially smoothed ratio has been developed. The estimate of weekly imports is the sum of the smoothed ratio multiplied by the weekly values and estimates for shipments from Puerto Rico. Imports of other oils includes an adjustment from Census data for unlicensed products because of coverage differences between the monthly imports data and Census data.

Explicit imputation is done for companies which do not respond in a given week. The imputed values are exponentially smoothed means of recent reports from the specific company.

### Response Rates

The response rate for the published estimates is usually between 95 and 98 percent.

### Note 1.2: Monthly Petroleum Supply Reporting System (MPSRS)

### Background

The MPSRS was Implemented in January 1983 as the result of an extensive effort to integrate the collection and processing of petroleum supply data that have been collected on other survey forms for many years. The collection of monthly petroleum supply statistics began as early as 1918 when the Bureau of Mines (BOM) began collecting data on refinery operations and crude oil stocks and movements. The collection systems

were further expanded to include natural gas plant liquids production and storage in 1925, imports of crude oil and petroleum products and storage and movements of petroleum products in 1959, and tanker and barge movements of crude oil and petroleum products in 1964. Since their inception, each survey has undergone numerous changes, but the MPSRS is the first effort to make them all consistent and comparable.

### Respondent Frame

EIA-810: All petroleum refinerles and plants that produce finished motor gasoline through the mechanical blending of liquids which are operated or controlled in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, the Hawaiian Foreign Trade Zone, and Guam. Approximately 313 respondents report on the EIA-810.

EIA-811: All bulk terminal facilities in the 50 States and the District of Columbia, Puerto Rico, and the Virgin Islands that (a) have a total bulk storage capacity of 50,000 barrels or more and/or (b) receive petroleum products by tanker, barge, or pipeline, regardless of ownership of the material. Approximately 328 respondents report on the EIA-811.

EIA-812: All products pipeline companies that carry petroleum products (including interstate, intrastate and intracompany pipelines) in the 50 States and the District of Columbia. Approximately 94 respondents report on the EIA-812.

EIA-813: All companies which carry or store crude oil of 1,000 barrels or more in the 50 States, and the District of Columbia. Included are gathering and trunk pipeline companies (including interstate, intrastate, and Intracompany pipelines), crude oil producers, terminal operators, storers of crude oil, and companies transporting Alaskan crude oil by water.

EIA-815: All licensed Importers and Importers of record shipping petroleum products from Puerto Rico into the 50 States and the District of Columbia.

Import data from the ERA-60 and EIA-815 are integrated into the import statistics reported in the *PSM*.

EIA-816: All operators of facilities designed to extract liquid hydrocarbons from natural gas stream (natural gas processing plants) or to separate a hydrocarbon stream into its component products, i.e., propane, butane, natural gasoline, etc. (fractionators). Approximately 990 respondents report on the EIA-816.

EIA-817: All known companies and plants that have custody of crude oil and petroleum products transported by tanker and barge between PAD Districts or between PAD Districts and the Panama Canal. There are about 50 respondents.

ERA-60: All licensed importers and importers of record importing crude oil and petroleum products into the United States and Puerto Rico. The respondent universe consisted of approximately 1,100 firms as of July 31, 1982. However, only a selected 250 importers must report each month regardless of import activity. All others must report only for a month in which they actually had imports. The respondent universe for this survey is updated whenever an import license is granted by the Office of Oil Imports of the ERA.

EIA utilizes a number of sources and methods to maintain the survey respondent lists. On a regular basis, survey managers review industry publications such as the Oil and Gas Journal and LP Gas Almanac for information on facilities or companies going into operation or closing down. These are augmented by articles in newspapers, letters from respondents indicating changes in status and information received from survey systems operated by other offices.

Periodically an extensive survey study is conducted to completely refresh the frames. This involves consolidating information from every known source including State agencies, federal agencies (e.g., EPA, Corps of Engineers, Census Bureau, etc.), and private industry directories. The effort also includes the evaluation of the impact of potential frame changes on the historical time series of data published from these respondents. The results of this frame study are usually implemented in January to provide a full year under the same frame.

### **Collection Methods**

The data for all of the MPSRS surveys are collected monthly. Completed forms are required to be postmarked by the 20th day following the end of the report month, with the exception of the EIA-815 and ERA-60 which are due 15 work days following the end of the report month. Telephone follow-up calls are made to nonrespondents prior to the publication deadline, for their data. An automated mailing list is maintained and is used to monitor receipt of the forms.

### **Imputing Missing Data**

Imputation is performed only for nonresponding companies that submitted reports the previous month. For such companies, previous monthly values are used for current values. The previous month's ending stocks value is used for both the current month's beginning stocks and the current month's ending stocks. In the event that the previous month's data were estimated, the respondent is contacted and requested to submit estimates, if necessary, to be followed by submission of actual data. Data for nonrespondents on the EIA-815 and 817, and ERA-60 are not imputed.

### Response Rates

As of the filing deadline, the response rates of the EIA-810 through EIA-813 respondents is over 90 per-

cent. The response rate for the EIA-816 is over 85 percent and for the EiA-817 It is 98 percent. All companies that have not responded are contacted by telephone. Although data are taken by telephone to expedite processing, a certified submission is still required. Names of companies that fall to file for 2 consecutive months are forwarded for further noncompliance action.

In July 1983, the ERA-60 survey had a response rate of 99.9 percent by the filling deadline. The universe was 1,100 firms at that time. (Because this is a dynamic survey, the universe is constantly changing.) Standard follow-up of nonrespondents is made to insure that all reports are received, since data are not imputed for nonrespondents. In addition, response is cross-checked with response on the Petroleum Licensing Decrementation System (PLDS), a listing of each month's importers. The response rate is generally 98 to 99 percent by the time the data are first published.

# Note 1.3: Census Import (IM-145) and Export (EM-522 and EM-594) Data

### Background

Each month the EIA purchases magnetic tapes of aggregated import and export statistics from the Bureau of the Census. These data provide the only source of export statistics and are used to augment the import data collected by the EIA. Export statistics and import data from the Census tapes on liquefled petroleum gases and bonded ship bunkers are published in the PSM.

### Import Statistics (IM-145)

### Coverage

The import statistics reflect both government and nongovernment imports of merchandise from foreign countries into the U.S. Customs territory (the 50 States, the District of Columbia, and Puerto Rico), without regard to whether or not a commercial transaction is involved. In general, the statistics record the physical movement of merchandise into the United States from foreign countries, with the exception of the following types of transactions that are excluded from the statistics:

- Merchandise in-transit through the United States, when documented with Customs as an in-transit movement.
- 2. Shipments from anywhere to U.S. possessions and shipments from U.S. possessions to the United States. (U.S. possessions include Puerto Rico, the Virgin Islands, Guam, and American Samoa.)
- 3. U.S. merchandlse that was held in foreign countries by the U.S. Armed Forces and is returned to the United States for the use of the Armed Forces.

### Source of Import Information

The official U.S. import statistics are complied by the Bureau of the Census from copies of the import entry and warehouse withdrawal forms that importers are required by law to file with Customs officials (Customs Forms 7501, 7505, and 7506).

Imported petroleum is reported as *Imports for Consumption*. Imports for consumption are a combination of entries for immediate consumption and withdrawais from warehouses for consumption. With certain exceptions as indicated above, these data generally reflect the total of commodities entered into U.S. consumption channels.

### **Country and Area of Origin**

The country reported in the statistics as the country of origin is defined as the country where the merchandise was grown, mined, or manufactured. In instances where the country of origin cannot be determined, the transactions are credited to the country of shipment.

### Export Statistics (EM-522 and EM-594)

### Coverage

The export statistics reflect both government and nongovernment exports of domestic and foreign merchandise from the U.S. Customs territory (the 50 States, the District of Columbia, and Puerto Rico) to foreign countries, without regard to whether or not the exportation involves a commercial transaction. In general, the statistics record the physical movement of merchandise out of the United States to foreign countries, with the exception of the following types of transactions:

- 1. All shipments from U.S. possessions, regardless of whether the shipments are sent to the United States, to other U.S. possessions, or to foreign countries.
- 2. Merchandise shipped in transit through the United States from one foreign country to another, when documented as such with U.S. Customs.
- 3. Bunker fuels and other supplies and equipment for use on departing vessels, planes, or other carriers engaged in foreign trade.

### Source of Export Information

The official U.S. export statistics are compiled by the Bureau of the Census primarily from copies of Shipper's Export Declarations. Exporters are required to file Shipper's Export Declarations with Custom's officials. The only exceptions are those exporters who have been authorized to submit data directly to the Bureau of Census on magnetic tape, punched cards, or monthly Shipper's Summary Export Declarations.

### **Country and Area of Destination**

The country of destination is defined as the country of uitimate destination or the country where the goods are to be consumed, further processed, or manufactured, as known to the shipper at the time of exportation. If the shipper does not know the country of uitimate destination, the shipment is credited to the last country to which the shipper knows that the merchandise will be shipped in the same form as it was when exported.

### Note 2: Supply

The components of petroleum supply are field production, refinery production, Imports, and stock withdrawal or addition:

Field Production is the sum of crude oil production (including lease condensate), natural gas processing plant production, and new supply (fleid production) of other liquids used by refineries.

Crude oil production is estimated based on data received from State conservation and revenue agencies. For further explanation, see Explanatory Note 3.

Field production of natural gas plant liquids (NGPL), including finished petroleum products, is reported monthly on survey Form EIA-816, Monthly Natural Gas Liquids Report. Negative production will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the same month. For survey description and other detail, see Explanatory Note 1.2.

Refinery Production of petroleum products is reported monthly on survey Form EIA-810, Monthly Refinery Report. Published production of these products equals refinery production minus refinery input. Refinery production of unfinished oils and of motor and aviation gasoline blending components appears on a net basis under refinery input. Negative production will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the same month.

Imports of crude oil and petroleum products are reported monthly on Form ERA-60, Report of Oil Imports into the United States and Puerto Rico, and Form EIA-815, Shipments of Refined Products (Including Untinished Oils) from Puerto Rico to the United States. In addition, the Census Bureau Tabulation iM-145 summarizes import data from Customs import declarations reported on Customs Forms 7501, 7505, and 7506. The most prominent difference between the EIA and Census systems appears in imports of ilquefied petroleum

gases (LPG), where the Census data show a much higher level of imports than EiA data. This occurs because the ERA-60 respondent frame was built by monitoring importers of licensed products and LPGs are not licensed products. Therefore, respondents that import only LPGs have not been identified, and do not report these imports to the Department of Energy, Since these importers are required to file form 7501 with the U.S. Customs Service, EIA obtains data on Imports of LPGs from Census Tabulation iM-145. Additional data taken from the IM-145 are relatively small quantities of naphtha- and kerosene-type jet fuels, distillate fuel oils, and residual fuel oils withdrawn from bonded storage for use in international trade. Even though these duty-free fuels are stored on United States shores, they did not enter the United States for domestic consumption and therefore are not included in the ERA-60 reporting sys-

Stock Withdrawal (+) or Addition (-) is calculated by subtracting stocks at the end of the month from stocks at the beginning of the same month. (Note: The beginning stocks of one month are equal to the ending stocks of the previous month.) A positive result (+) would represent a withdrawal from stocks and an increase in petroleum supplies distributed for domestic consumption. A negative result (-) would represent a buildup of stocks and a reduction in the amount of petroleum supplies distributed for domestic consumption. For a description of survey forms used to make stock withdrawal or addition calculations see Explanatory Note 5.

Unaccounted-for Crude Oil is a balancing item that represents the difference between crude oil supply and disposition.

Crude oil supply is the sum of field production, imports and stock withdrawals or additions. Crude oil disposition is the sum of exports, refinery input, losses and product supplied. Unaccounted-for crude oil is calculated by subtracting crude oil supplies from crude oil disposition. A positive result indicates that refiners and exporters reported use of more crude oil than was reported to have been available to them. (This occurs, for example, when imports are undercounted due to late reporting or other problems.) A negative result would indicate that more crude oil was reported to have been supplied to refiners and exporters than they reported used.

### Note 3: Domestic Crude Oil Production

Data for the Crude Oil Production System (COPS) are reported to the Department of Energy by each of the State conservation agencies, which collect crude oil production values for tax purposes. The U.S. Geological Survey reports the volume of crude oil that is produced offshore in Federally-owned waters. With the exception of ten State conservation agencies, all of these reports are received monthly. After each calendar year, these monthly numbers are updated using the annual reports

from the State conservation agencies and the U.S. Geological Survey. The ten States that do not report monthly values are Indiana, Kentucky, Missouri, Arkansas, Utah, New York, Ohio, Pennsylvania, West Virginia, and Wyoming. Monthly values are estimated for these States using the individual linear trends of their historical annual crude oil production values.

There is a time lag of approximately 4 months between the end of the reporting month and the time when the monthly COPS information becomes available. Table 11 of this publication provides information on crude oil production for the most recent month for which COPS values are available. In order to present more timely crude oil production values, the EIA's Dallas Field Office prepares a series of State level estimates which are based on historical production patterns and are summed to obtain the monthly crude oil production values shown in the summary statistics of this publication.

The individual State level estimates are either exponential curve fitted projections based on recent data or are constant level projections based on the average production rate during a recent time period. In some cases, adjustments are made to these estimates based on additional information on expected changes in production rates supplied by a State agency, a trade association, or an individual field operator.

### Note 4: Disposition

The components of petroleum disposition are crude oil losses, refinery inputs, exports, and products supplied for domestic consumption.

Crude Oil Losses is the sum of crude oil losses at refineries. Crude oil losses at refineries are reported on Form EIA-810, Refinery Report.

Refinery Inputs of crude oil, natural gas plant liquids, and other liquids are reported monthly on survey Form EIA-810, Monthly Refinery Report. Published inputs of unfinished oils and of motor and aviation gasoline blending components equal refinery input minus refinery output. Refinery inputs of finished petroleum products are reported on a net basis under refinery production.

Exports of crude oil and petroleum products are compiled from Census Bureau tabulations EM-522 and EM-594. Exports Include crude oil shipments to Puerto Rico, the Virgin Islands, and the Hawailan Foreign Trade Zone, which are obtained from refinery receipts reported on Form EIA-810, by refineries located in these places.

Product Supplied for each product is calculated by summing field production plus refinery production, plus imports, plus stock withdrawal or minus stock addition, minus crude oil losses (plus net receipts when calculated on a PAD District basis), minus re-

finery input, minus exports. This formula ensures that total disposition equals total supply.

Products supplied Indicates those quantities of petroleum products supplied for domestic consumption. Occasionally, the result for a product is negative because total disposition of that product exceeds total supply. Negative product supplied may occur for a number of reasons: (1) product reclassification has not been reported, (2) data were misreported or reported late, (3) in the case of calculations on a PAD District basis, the figure for net receipts was inaccurate because the coverage of interdistrict movements was incomplete.

Product supplied for crude oil is the sum of crude oil burned on leases and by pipelines as fuel oil. These data are reported on Form EIA-813, *Monthly Crude Oil Report.* Prior to January 1983, crude oil burned on leases and by pipelines as fuel oil were reported as either distillate or residual fuel oil and included in product supplied for these products.

### Note 5: Stocks

Primary stocks of crude oil are the sum of ending stocks reported monthly on Form EIA-810, Monthly Refinery Report, and on Form EIA-813, Monthly Crude Oil Report. Crude oil held in the Strategic Petroleum Reserve is included unless otherwise noted. Alaskan crude oil in transit is also included. Stocks of crude oil are also reported weekly on Form EIA-800, Weekly Refinery Report, and on Form EIA-803, Weekly Crude Oil Stocks Report. Primary stocks of petroleum products are summed from data reported on Form EIA-816, Monthly Natural Gas Liquids Report, Form EIA-810, Monthly Refinery Report, Form EIA-811, Monthly Bulk Terminal Report, and on Form EIA-812, Monthly Product Pipeline Report. Primary stocks of petroleum products do not include either secondary stocks held by dealers and Jobbers or stocks held by consumers. Petroleum product stocks are also reported weekly on Form EIA-800, Weekly Refinery Report, Form EIA-801, Weekly Bulk Terminal Report, and Form EIA-802, Weekly Crude Oil Stocks Report. For survey descriptions and other details, see Explanatory Notes 1.1 - 1.3.

## Note 6: Average Stock Levels

The graphs displaying monthly stock levels of crude oil, motor gasoline, distillate fuel oil, residual fuel oil, liquefied petroleum gases, and other products provide the user with recent data as well as a summary of data from January through December or from July through June for the most recent 3-year period. This summary takes the form of an average range that includes seasonal variation determined from a longer time period. The

average range represents the historical pattern; It is not a forecast.

These curves are updated semiannually (On April 1 and October 1), by basing the average ranges on a more recent time period. Each 3-year data series is adjusted by dropping the first 6 months and including the most recent 6 months.

For each data series, the monthly seasonal factors are estimated by means of a seasonal adjustment technique developed at the Bureau of the Census (Census X-11). The seasonal factors are assumed to be stable (i.e., unchanging from year to year) and additive. The series is deseasonalized by subtracting the seasonal factor for the appropriate month from the reported stock levels. The intent of deseasonalization is to remove only seasonal variation from the data. Thus, a deseasonalized series would contain the same trends and Irregularities as the original data. For crude oil stocks, the derived seasonal factors are very small relative to crude oil stock levels. Therefore, the seasonal factors for distillate fuel oil, residual fuel oil, liquefied petroleum gases and other products are derived using monthly data from 1974-1980. For motor gasoline, the seasonal factors are based on monthly data from 1975, 1976, 1978, 1979 and 1980. in 1977, there was virtually no seasonal behavior in motor gasoline stocks. Monthly stock levels stayed at the same high level for the entire year. In addition, the seasonal patterns in 1973, 1974 and 1977 were not representative of the recent past, and these years were not used in the determination of seasonal patterns for motor gasoline stocks. Because of these differences in the year-to-year seasonal fluctuation of motor gasoline, the evidence for the iliustrated seasonal patterns for crude oil, distillate fuel oil, residual fuel oil, liquefied petroleum gases and other products is stronger than is the evidence for the illustrated seasonal patterns for motor gasoline.

in some cases, these seasonal patterns do not show a smooth transition from month to month. For example, the June factor for residual fuel oil is slightly less than the May and July values, making a bump in the curve. As there is little difference in the magnitude of these seasonal factors, it is possible that this variation is due to the small number of observations (7 years) and the data variability.

After seasonal factors are derived, the most recent 3-year period (from January through December or from July through June) is deseasonalized. The average of the deseasonalized 36-month series determines the midpoint of the deseasonalized average band. The standard error of the deseasonalized 36 months is calculated adjusting for extreme data points. The width of the average range is twice this standard error.

The upper curve of the average range is defined as the average plus the seasonal factors plus the standard error. The lower curve is defined as the average plus the seasonal factors minus the standard error.

### Note 7: Movements

Movements of crude oil between PAD Districts are reported on Form EIA-817, Monthly Tanker and Barge Movement Report, and on Form EIA-813, Monthly Crude Oil Report. Petroleum product movements are reported on Forms EIA-817, Monthly Tanker and Barge Movement Report, and EIA-812, Monthly Product Pipeline Report. Net receipts is the difference between total movements into and total movements out of each PAD District by pipeline, tanker, and barge. For survey descriptions and other detail, see Explanatory Note 1.2.

### **Note 8: Preliminary Monthly Statistics**

Weekly data (Forms EiA-800, 801, 802, 803, and 804) are used to estimate the most recent monthly values for the *Summary Statistics* section. Since some of the weekly reporting periods overlap two adjacent months, it is necessary to use weighting factors in the calculation of the monthly values.

To estimate crude oil and petroleum product imports, crude oil input to refineries and production of petroleum products for a specific month, the weekly estimates are weighted by the number of days of that month included in each week, then summed.

End-of-month stock levels of crude oil and the major products (motor gasoline, distillate fuel oil, and residual fuel oil) are calculated in a similar manner, but use only the two weekly reporting periods that cover the end-of-week stocks before and after the end of the month. The end-of-month stock level is calculated by first calculating the stock change between the two weeks. The daily stock change between the two end-of-week stock levels is then calculated. This number is multiplied by the weighting factor of the earlier of the two weeks (the week that covers the last day of the month of Interest). This change is added to the earlier of the two end-of-week stock levels to estimate the end-of-month stock level.

Preliminary monthly estimates of domestic crude oil production are calculated as described in Explanatory Note 3.

### Note 9: Notes on Tables

Note 9.1 Crude Oil and Petroleum Products Overview statistics on the referenced line appear in Table 4 of the Detailed Statistics, except where noted.

• Crude Oil and Petroleum Products Stock Withdrawai (+) or Addition (-), Petroleum Products Suppiled, Total imports, Crude Oil imports, Total Exports, and Crude Oil Exports appear as labeled in Table 4. Total Production and Crude Oil Production appear under Field Production in Table 4.

- Natural Gas Plant Production is the sum of Natural Gas Liquids and Finished Petroleum Products Field Production in Table 4.
- Petroleum Products Imports is the sum of Natural Gas Liquids and LRGs, Other Liquids, and Finished Petroleum Products Imports in Table 4.
- Total Crude Oil and Petroleum Products Ending Stocks appear in thousand barrels in Table 2.

Note 9.2 Crude Oil Supply and Disposition statistics on the referenced line appear in Table 1 of the Detailed Statistics, except where noted.

- Total Domestic Field Production, Alaskan Field Production, SPR Imports, Other Imports (synonymous with Imports Gross Excl. SPR), SPR and Other Primary Stocks Withdrawal (+) or Addition (-), Unaccounted For Crude Oil, Refinery Inputs, and Exports appear as labeled in Table 1.
- Crude Losses and Product Supplied appear as labeled in Table 4.
- SPR Ending Stocks and Other Primary Ending Stocks (synonymous with stocks excluding SPR) appear in thousand barrels in Table 1.
- Total Crude Oil Ending Stocks appear in thousand barrels in Table 2.
- Total Imports appear in Table 4.

Note 9.3 Finished Motor Gasoline Supply and Disposition statistics on the referenced line appear in Table 4 of the Detailed Statistics, except where noted.

- Total Production is the sum of Field Production and Refinery Production in Table 4.
- Imports, Stock Withdrawal (+) or Addition (-), Exports, and Product Supplied appear as labeled in Table 4.
- Unleaded Percent of Total Product Supplied represents the ratio of finished unleaded motor gasoline product supplied to total finished motor gasoline product supplied, multiplied by 100 and rounded to the nearest tenth.
- Ending stocks are aggregated from ending stocks in thousand barrels in Table 2.

Note 9.4 Distillate and Residual Fuel Oil Supply and Disposition statistics on the referenced lines appear in Table 4 of the Detailed Statistics, except where noted.

- Total Production is the sum of Field Production and Refinery Production in Table 4.
- Imports, Stock Withdrawal (+) or Addition (-), Exports, and Product Supplied appear as labeled in Table 4.

Ending Stocks appear in thousand barrels in Table
 2.

Note 9.5 Liquefied Petroleum Gases Supply and Disposition statistics represent the aggregation of statistics on ethane, propane, butane, butane-propane mixtures, ethane-propane mixtures, and isobutane. The statistics on the referenced line appear in Table 4 of the Detailed Statistics, except where noted.

- Total Production is the sum of Field Production and Refinery Production in Table 4.
- Imports, Stocks Withdrawal (+) or Addition (-), Refinery Inputs, Exports, and Product Supplied appear as labeled in Table 4.
- Ending stocks appear in thousand barrels in Table
  2.

Note 9.6 Other Petroleum Products Supply and Disposition statistics represent the aggregation of statistics on natural gasoline, isopentane, unfractionated stream, plant condensate, other liquids, and all finished petroleum products except finished motor gasoline, distillate fuel oil, and residual fuel oil. The statistics on the referenced line are aggregated from Table 4 of the Detailed Statistics, except where noted.

- Total Production is the aggregated sum of Field Production and Refinery Production in Table 4.
- Imports, Stock Withdrawal (+) or Addition (-), Refinery Inputs, Exports, and Product Supplied are aggregated from Table 4.
- Ending stocks are aggregated from ending stocks in thousand barrels in Table 2.

### Note 9.7 Table 1. U.S. Petroleum Balance

- Lines (1) through (3): Crude oil (including lease condensate) production for *Alaska*, *Lower 48 States*, and *Total U.S.* are calculated by calling the conservation agency in Alaska for Alaskan crude oil production during the month, estimating crude oil production in the United States (see Explanatory Note 3), and taking the difference to equal production in the Lower 48 States.
- Line (5): SPR Imports are reported on Survey Form ERA-60.
- Line (12): Total Other Sources equals crude oil stock withdrawal (+) or addition (-) plus unaccounted for crude oil minus crude losses in Table 2.
- Line (14): Natural gas plant liquids (NGPL) *Production* equals field production of natural gas liquids (NGL) plus field production of finished petroleum products in Table 2.
- Line (15): NGPL Imports equals the sum of the im-

ports of natural gasoline and isopentane, unfractionated stream, and plant condensate imports in Table 2.

- Line (16): NGPL Stock Withdrawal (+) or Addition (-) is equal to the sum of stock withdrawal (+) or addition (-) of natural gasoline and isopentane, unfractionated stream, and plant condensate in Table 2.
- Line (17) equals the sum of lines (14), (15), and (16).
- Line (18): Unfinished oils and gasoline blending components Stock Withdrawal (+) or Addition (-) equals stock withdrawal (+) or addition (-) for other hydrocarbons and alcohol, for unfinished oils, motor gasoline blending components, and aviation gasoline blending components.
- Line (20): Other Hydrocarbons and Alcohol New Supply equals the field production of same in Table 2.
- Line (21): Refinery Processing Gain is a balancing Item equal to total refinery production minus total refinery input in Table 2.
- Line (23): Total Other Liquids equals the sum of lines (18) through (22).
- Line (24): Total Production of Products equals crude oil input to refinerles plus field production of NGPL and finished petroleum products; plus imports of natural gasoline and Isopentane, unfractionated stream, and plant condensate; plus stock withdrawal (+) or addition (-) of natural gasoline and isopentane, unfractionated stream, and plant condensate; plus stock withdrawal (+) or addition (-) of other hydrocarbons and alcohol, unfinished oils, aviation gasoline blending components, and motor gasoline blending components; plus imports of unfinished olls, aviation gasoline blending components, and motor gasoline blending components; plus field production of other hydrocarbons and alcohol; plus total refinery production; minus total refinery input; plus crude oil product supplied in Table 2.
- Line (25): Gross Imports of Refined Products equals imports of LPG plus Imports of finished petroleum products in Table 2.
- Line (26): Exports of Refined Products equals exports of LPG plus exports of finished petroleum products in Table 2.
- Line (27): Net Imports of Refined Products equals the difference between lines (25) and (26).
- Line (28): Total New Supply of Products equals crude oil input to refinerles plus field production of NGPL and finished petroleum products; plus imports of natural gasoline and isopentane, unfractionated stream, and plant condensate; plus stock withdrawal (+) or addition (-) of natural gasoline and isopentane, unfractionated stream, and plant condensate; plus stock withdrawal (+) or addition (-) of other hydrocarbons and alcohol, unfinished oils, aviation

gasoline blending components, and motor gasoline blending components; plus imports of unfinished oils, aviation gasoline blending components, and motor gasoline blending components; plus field production of other hydrocarbons and alcohol; plus total refinery production; minus total refinery input; minus crude oil product supplied plus imports of LPG and finished petroleum products; minus exports of LPG and finished petroleum products in Table 2.

- Line (29): Refined Products Stocks Withdrawal (+) or Addition (-) equals the sum of stock withdrawal (+) or addition (-) for LPG and finished petroleum products in Table 2.
- Line (30): Total Petroleum Products Supplied for Domestic Use equals total products supplied in Table 2.
- Lines (31) through (35) equal the respective products supplied in Table 2.
- Line (36): Other Products Supplied equals the sum of natural gasoline and Isopentane, unfractionated stream, plant condensate, aviation gasoline, naphtha < 400 Deg. F for petrochemical feedstock use, other oils > 400 Deg. F. for petrochemical feedstock use, special naphthas, lubricants, waxes, coke, asphalt, road oil, still gas, unfinished oils, motor gasoline blending components, aviation gasoline blending components and miscellaneous products supplied in Table 2.
- Line (37): Total Product Supplied is equal to total products supplied in Table 2.
- The sum of lines (38) and (39), stocks of Crude Oll and Lease Condensate (Excluding SPR) and stocks held by the Strategic Petroleum Reserve, equals ending stocks of crude oll in Table 2. SPR stocks are reported on Form EIA-813,
- Line (43): stocks of Refined Products, equals the sum of LPG and finished petroleum product stocks in Table 2.

### Note 10: New Stock Basis

In January 1975, 1981, and 1983, numerous respondents were added to bulk terminal and pipeline surveys affecting subsequent stocks reported and stock withdrawal calculations. Using the expanded coverage (new basis), the end-of-year stocks, in million barrels, would have been:

- Crude Oil: 1982 645 (Total) and 351 (Other Primary).
- Crude Oll and Petroleum Products: 1974 1,121;
   1980 1,420; and 1982 1,462.
- Motor Gasoline: 1974 225; 1980 263; 1982 244 (Total) and 203 (Finished).

- Distillate Fuei Oil: 1974 · 224; 1980 · 205; and 1982 · 186.
- Residual Fuel Oil: 1974 75; 1980 91; and 1982 68.
- Liquefied Petroleum Gases: 1974 113; 1980 128; and 1982 - 103.
- Other Petroleum Products: 1974 220; 1980 249; and 1982 - 259.
- Stock withdrawal calculations beginning in 1975, 1981, 1983 were made using new basis stock levels.

In January 1984, changes were made in the reporting of natural gas liquids. As a resuit, unfractionated stream, which was formerly included in "Other Petroleum Products Supply and Disposition" table in the Summary Statistics, is now reported on a component basis (ethane, propane, normal butane, isobutane and pentanes plus). Most of these stocks will now appear in the "Liquefied Petroleum Gases Supply and Disposition" table of the Summary Statistics. This change will affect stocks reported and stock withdrawais in each table. Under the new basis, end-of-year 1983 stocks, in million barreis, would have been:

• Liquefied Petroleum Gases: 1983 - 108

Other Petroleum Products: 1983 - 248

### Note 11: Stocks of Alaskan Crude Oil

Stocks of Alaskan crude oil in transit were included for the first time in January 1981. The major impact of this change is on the reporting of stock withdrawal calculations. Using the expanded coverage (new basis), 1980 end-of-year stocks, in million barreis, would have been 488 (Total) and 380 (Other Primary).

# Note 12: Changes in Petroleum Industry Reporting

Petroleum statistics contained in this report for all years through 1980 were developed using definitions, concepts, reporting procedures and aggregation methods that are consistent with those developed by the U.S. Bureau of Mines. Research conducted by the Energy Information Administration in 1979 and 1980 indicated that changes had occurred in the petroleum industry that were not being adequately reflected in EiA's reporting systems.

EiA reporting forms, definitions, and procedures were modified beginning in January 1981 to describe industry operations more accurately. Unfortunately, empirical information is not available to precisely measure the data shortcomings throughout 1980. However, estimates of the magnitudes of differences in the major data series are described below to form a basis for comparing 1979, 1980, and 1981 data.

### **Motor Gasoline**

Prior to 1979, the EIA product-supplied series for motor gasoline was consistently about 2 percent lower than the Federal Highway Administration (FHWA) gasolinesales data series, which is derived from State tax recelpts. This difference increased to about 4 percent in 1979 and 5 percent in 1980. There are two primary causes for this growing difference. First, refinery operations, particularly the flows of unfinished oils and the redesignation of some finished products, were not be-Ing accurately described on the EIA survey forms. Second, a large amount of gasoline was being produced away from refineries at "downstream biending stations" to take advantage of provisions in regulations governing the amount of lead that could be added. These blending stations were not reporting gasoline production to the EIA until the data system was changed in January 1981.

Quantitative estimates of the magnitude of the difference—in EIA's gasoline product suppiled data in 1979 and 1980 have been made by the EiA and the American Petroleum Institute (API). The following table provides 1979 and 1980 data as published in the Petroleum Statement Annual, as well as EIA and API estimates of "recast" motor gasoline product suppiled. EIA recast estimates were based upon preliminary monthly information in the Monthly Petroleum Statement. The ranges displayed in the EIA column reflect uncertainty in the estimates. Also shown are the FHWA motor gasoline sales statistics for those years. EIA has recently published a study of the quality of these FHWA data.

Office of Energy Information Validation, Energy Information Administration, U.S. Department of Energy, Error Profile of the Motor Fuel Taxation Data used to Establish and Monitor State Emergency Conservation Targets (Washington, D.C: December, 1981).

# Finished Motor Gasoline Product Supplied on Old and New Basis (Thousand Barrels per Day)

		1980						
	EIA · Reported	API Recast	EIA Recast	FHWA¹	EIA Reported	APi Recast	EIA Recast	FHWA1
Jan	6,830	7,230	7,084- 7,246	6,984	6,323	6,789	6,630- 6,791	6,672
Feb	7,254	7,496	7,389- 7,568	7,538	6,596	6,983	6,831- 7,003	6,830
Mar	7,229	7,414	7,301- 7,463	7,316	6,406	6,753	6,607- 6,768	6,713
Apr	7,055	7,300	7,187- 7,353	7,375	6,800	7,014	6,886- 7,052	6,981
May	7,213	7,429	7,313- 7,475	7,428	6,729	6,954	6,823- 6,984	7,044
Jun	7,191	7,483	7,350- 7,516	7,441	6,657	6,966	6,824- 6,991	7,049
Jul	6,902	7,241	7,105- 7,266	7,299	6,743	6,973	6,960	7,132
Aug	7,330	7,546	7,426- 7,588	7,619	6,648	6,841	6,828	7,090
Sep	6,881	7,122	7,016- 7,262	7,232	6,510	6,692	6,962	6,685
Nov	6,791	7,068	6,956- 7,122	7,142	6,234	6,507	6,516	6,951
Dec	6,730	7,106	6,966- 7,127	7,064	6,632	6,948	6,936	6,993
Average	7,034	7,302	7,183- 7,347	7,309	6,579	6,882	6,806- 6,889	6,925

<sup>&</sup>lt;sup>1</sup>FHWA gasoline statistics published in their 1979 Table MF-33G, 08-06-80, contain aviation gasoline as well as motor gasoline. Only motor gasoline data are included in published 1980 data. Consequently, the 1979 data shown above were reduced by subtracting aviation gasoline product supplied quantities as published by EIA in the 1979 *Petroleum Statement Annual*. The 1980 FHWA data published in their 1980 Table MF-33GA, August 1981, did not require this adjustment.

### Distillate and Residual Fuel Oil

Distillate and residual fuel oil refinery production statistics through 1980 were adjusted to account for an imbalance between unfinished oil supply and disposition. The reported quantities of refinery inputs of unfinished oils typically exceed the available supply of unfinished oils. It has been assumed that this occurs when distillate and residual fuel oil produced by a refinery is shipped to another refinery, where it is treated as unfinished oil. This oil is then reprocessed rather than used or sold as distillate or residual fuel oil.

For many years (including 1980), the difference between unfinished oil disposition and supply was sub-

tracted from distillate and residual fuel oil production to adjust for this discrepancy. Two-thirds of the difference was applied to distillate, and one-third to residual fuel oil.

Beginning in January 1981 this adjustment was discontinued because there was not sufficient empirical evidence to support it. The following table presents distillate and residual fuel oil refinery production in 1980 as published (adjusted) and on the same basis as 1981 statistics are now being completed (unadjusted) to permit comparison between 1980 and 1981 data series. Adjusted distillate and residual fuel oil product supplied volumes differ from the unadjusted volumes by the same amounts as the adjusted and unadjusted production volumes.

Adjusted and Unadjusted Refinery Production, and Unadjusted Product Supplied of Distillate and Residual Fuel Oils, by Month for 1979 and 1980 (Thousand Barrels Per Day)
1979

		Distillate Fuel OII				Residual Fuel OII			
Month	Adj. Ref. Prod.	Unadj. Ref. Prod.	Diff.	Unadj. Product Supplied	Adj. Ref. Prod.	Unadj. Ref. Prod.	Diff.	Unadj. Product Supplied	
Jan.	3,043	3,108	65	4,646	1,912	1,946	34	3,594	
Feb.	2,888	2,945	57	4,869	1,792	1,822	30	3,625	
Mar.	3,019	3,026	7	3,671	1,719	1,723	4	3,243	
Apr.	2,945	2,978	32	3,048	1,639	1,656	17	2,524	
May	3,066	3,093	27	3,025	1,586	1,600	14	2,517	
Jun.	3,153	3,187	35	2,743	1,548	1,566	18	2,601	
Jul.	3,305	3,344	38	2,601	1,575	1,594	20	2,471	
Aug.	3,321	3,359	38	2,799	1,584	1,603	20	2,570	
Sep.	3,354	3,306	- 48	2,599	1,627	1,602	- 25	2,584	
Oct.	3,251	3,217	- 34	3,085	1,629	1,612	17	2,523	
Nov.	3,239	3,200	39	3,208	1,736	1,716	- 20	2,795	
Dec.	3,221	3,238	17 .	3,725	1,894	1,903	9	3,022	
Average	3,152	3,169	16	3,327	1,687	1,695	8	2,834	

### 1980

		Distillate Fuel Oil				Residual Fuel Oil				
Month	Adj. Ref. Prod.	Unadj. Ref. Prod.	Diff,	Unadj. Product Supplied	Adj. Ref. Prod.	Unadj. Ref. Prod.	DIff.	Unadj. Product Supplied		
Jan.	3,013	3,093	80	3,794	1,771	1,812	41	3,108		
Feb.	2,766	2,888	122	3,834	1,773	1,836	63	3,168		
Mar,	2,557	2,690	133	3,312	1,584	1,652	68	2,726		
Apr.	2,460	2,554	94	2,729	1,595	1,643	48	2,492		
May	2,474	2,610	136	2,538	1,509	1,579	70	2,305		
Jun.	2,646	2,721	75	2,392	1,575	1,613	38	2,359		
Jul.	2,689	2,783	94	2,343	1,480	1,528	48	2,339		
Aug.	2,461	2,582	121	2,258	1,444	1,506	62			
Sep.	2,686	2,726	40	2,627	1,495	1,516	21	2,348		
Oct.	2,589	2,650	61	2,981	1,512	1,543	31	2,380		
Nov.	2,703	2,823	120	3,069	1,579	1,641	62	2,258		
Dec.	2,891	3,052	161	3,776	1,660	1,743	83	2,513 2,762		
Average	2,661	2,764	103	2,969	1,580	1,634	54	2,562		

### **Total Petroleum Products**

The imbalance between the supply and disposition of unfinished oils and gasoline blending components is included with other products (line 35) in the U.S. Petroleum Balance (Table 1). These imbalances are reported as negative product supplied in the Other Liquids sec-

tion, Supply and Disposition Statistics (Table 2). Since these changes only involve redistribution of the volumes of gasoline, distillate and residual fuel oil, gasoline blending components, and unfinished oils, the total volume of petroleum products supplied remains unaffected by them.

# Note 13: NGL Import/Export Algorithms

Beginning in January 1984, the Energy Information Administration (EIA) implemented changes in the reporting of natural gas liquid (NGL) supply data, moving from a nine-product slate to a five-component slate that corresponds to industry record-keeping practices. Changes could not be made to the import and export systems. Therefore, in order to allocate imports and exports of mixed NGL streams to individual component parts, the EIA developed a statistical algorithm.

### **Imports**

The imports algorithm is based on information gathered from the larger importers of NGL, who were asked to provide component analyses of the products they imported during the first six months of 1983. The percentages shown in Exhibit 1 are derived from the weighted averages of the data provided by the Importers.

### EXHIBIT 1. ALGORITHMS FOR ALLOCATING NGL IMPORTS

PRODUCT SLATI	E Ethane	Propane	Normal butane	e Isobutane	Pentanes Plus
Natural Gasoline & Isopentane (EIA-814)					100%
Plant Condensate (EIA-814)					100%
Ethane (IM-145)	100%				
Butane (IM-145)			60%	40%	
Butane-Propane Mixtures (IM-145)		40%	35%	20%	5%
Ethane-Propane Mixtures (IM-145)	80%	20%			

### **Exports**

The export algorithm is based on information gathered from the larger exporters of NGL, who were asked to provide component analyses of the products they

exported during 1983. The percentages shown in Exhibit 2 are derived from the weighted averages of the data provided by the exporters. It was necessary to derive percentages by PAD of exportation, due to the wide variation of components in the mixed streams.

### EXHIBIT 2. ALGORITHMS FOR ALLOCATING NGL EXPORTS

PRODUCT	P,A.D.	Ethane	E. Propane	IA Component SI Normal Butane	late Isobutane	Pentanes Plus
Ethane	All	100%				
Propane	All		100%			
Butane	All			100%		
Mixed Streams	I, IV, V II III	30%	40% 25% 80%	60% 15% 20%	15%	15%

<sup>#</sup> U.S. GOVERNMENT PRINTING OFFICE: 1984-421-766:10000

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